SONY

3-755-993-12 (2)

Chapter 1
Introduction

Chapter 2
Getting Started

Chapter 3
Basic Operations

Chapter 4
Advanced Operations

Chapter 5
Editing

Chapter 6
Additional Information

SLV-E7UB/ER7UY/E8UV

Video Cassette Recorder

Operating Instructions

VHS Hi-Fi
PAL NTSC 4.43

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Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM
A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362, (i.e. marked with ⓐ or ⓑ mark) must be used.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. **Never** use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

IMPORTANT
If the plug supplied is not suitable for the socket outlets in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions.

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

WARNING
To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.

Caution
Television programmes, films, video tapes and other materials may be copyrighted.
Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

Precautions

Safety

- The SLV-E7UB/ER7UY/E8UV operates on 240 V AC, 50 Hz.
- If anything falls into the cabinet, unplug the VCR and have it checked by qualified personnel before operating it any further.
- Unplug the VCR from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never pull the cord itself.

Installation

- Allow adequate air circulation to prevent internal heat build-up.
- Do not place the VCR on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the VCR near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the VCR in a vertical position. It is designed to be operated in a horizontal position.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens.
- Do not place heavy objects on the VCR.

Operation

- When the VCR is not in use, turn the power off to conserve energy and to extend its life.
- Remove and store video cassettes after recording or playback.

Cleaning

- Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution.
- Do not use any type of solvent, such as alcohol or benzine which might damage the finish.

If you have any questions about this unit, contact your Sony service facility.

Welcome!

Congratulations on your purchase of the Sony SLV-E7UB/ER7UY/E8UV Video Cassette Recorder.
This video cassette recorder is the result of our commitment to bring Sony Customers high quality, state-of-the-art technology.
Thank you for choosing Sony.

Table of Contents

Warning 2
Precautions 2

Chapter 1
Introduction

Features 4
Colour Systems of Your VCR 4
How to Use This Manual 4
Conventions of this Manual 4

Chapter 2
Getting Started

Step 1 Unpacking the VCR 5
Step 2 Preparing the Remote Commander 6
Inserting Batteries 6
Operating the VCR with the Remote Commander 6
How to Use the Remote Commander 6
Step 3 Connecting the VCR 7
Step 4 Tuning the TV to Your VCR 8
Step 5 Tuning Your VCR to Television Broadcasts 9
Presetting Desired Channels 9
Fine Tuning 11
Step 6 Setting the Clock 12

Chapter 3
Basic Operations

Playback 14
Inserting a Video Cassette 14
Ejecting a Video Cassette 14
Playing Back a Cassette 15
Using the Display 16
Resetting the Tape Counter 16
Enhancing Picture Quality 17
Selecting the Monitor Sound 18
Recording TV Programmes 20
Recording while Watching the TV Programme 20
Recording with the TV Off 21
Recording while Watching Another Programme 21
Recording Stereo/Bilingual Programmes 22
Timer Recording 24
Setting the Timer 24
Daily/Weekly Recording 26
Quick-Timer Recording 27
Overlapping Timer Recordings 28
Checking the Timer Settings 28
Changing or Cancelling the Timer Settings 29
PDC Recording (SLV-E8UV only) 29

Chapter 4
Advanced Operations

Variable Speed Playback 30
Variable Speed Playback Using the DUAL MODE SHUTTLE Ring 30
Pausing the Picture 30
Picture Search 30
Locked Picture Search 30
Slow-motion Playback 30
Frame-by-frame Picture 30
Replay Picture 31
X2 Normal Speed Playback 31
Viewing the Picture During Fast-forward or Rewind 31
Customizing Your VCR – SET UP MENU 32
Index Function 33
Playing Back from the Index Point – INDEX SCAN 33
Locating an Index Mark – INDEX SEARCH 34
OPC (Optimum Picture Control) 35
Using the OPC Function when Recording 35
Using the OPC Function when Playing Back a Tape 35

Chapter 5
Editing

Tape Dubbing 36
Editing from Another VCR 36
Editing onto Another VCR 37
Audio Dubbing 38

Chapter 6
Additional Information

Identifying the Parts and Controls 39
Troubleshooting 43
Taking Care of Your VCR 45
Specifications 46

Index 47

Features

Here are some of the features you'll enjoy with your video cassette recorder:

- High Quality (HQ*) picture technology that gives sharp, finely detailed pictures.
- Replay feature that, at a push of a button, replays in slow motion the last two seconds of a recorded scene.
- A long-range Remote Commander that lets you control the VCR functions.
- Easy-to-use on-screen menus for choosing many VCR options.
- An on-screen display that indicates elapsed time and remaining tape length for use in recording and playback.
- A timer to record up to eight TV programmes.
- Auto-tracking adjustment that automatically adjusts picture distortion.
- DUAL MODE SHUTTLE ring on the VCR and Remote Commander let you have quick access to a desired scene.
- OPC (Optimum Picture Control) function allows you to improve recording and playback quality by adjusting the system parameter automatically to the condition of the video heads and video tape.

* HQ
Video Cassette Recorders (VCR) with this marking incorporate VHS high-quality picture technology and are compatible with any video cassette recorder bearing the VHS mark.

Colour Systems of Your VCR

- This VCR is designed to record and playback using the PAL (I) colour system. Recording of video sources based on other colour systems cannot be guaranteed.
- Video tapes recorded with the NTSC colour system can be played back on this VCR.

How to Use This Manual

This manual is divided into the following six chapters: Introduction, Getting Started, Basic Operations, Advanced Operations, Editing, and Additional Information.

Chapter 1: Introduction

This chapter describes the principal features of the VCR.

Chapter 2: Getting Started

This chapter provides step-by-step information on how to set up your VCR.

Chapter 3: Basic Operations

This chapter provides information about the VCR's basic operations such as playing back a tape, recording a TV programme, timer recording, and quick-timer recording. If you are already familiar with the basic operations, see the chapter "Advanced Operations."

Chapter 4: Advanced Operations

This chapter describes various kinds of functions you can take advantage of when operating the VCR. Read this chapter after you become familiar with your VCR.

Chapter 5: Editing

This chapter describes how to edit a video tape onto or from your other VCR or video camera recorder.

Chapter 6: Additional Information

This chapter includes a troubleshooting section, specifications, and index. "Identifying Parts and Controls" is also helpful to overview your VCR. If you have any problems with setting up or operating your VCR, refer to the troubleshooting section first before calling your local Sony dealer.

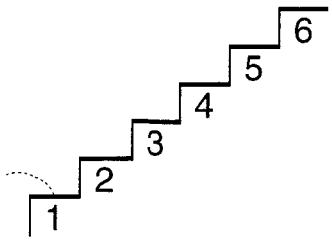
Conventions of This Manual

This manual explains operations using the VCR Remote Commander. However, the buttons on the VCR with the same name or mark as those on the Remote Commander function exactly the same as those on the Remote Commander.

When you are reading through the manual, remember:
- Buttons and switches are shown in uppercase letters. Example: Press ► PLAY.
- Buttons and switches used during operation are shaded in the illustration.
- ⇦ indicates signal flow.

Any differences in appearance or operation of the three VCRs are clearly indicated in the text, for example, "SLV-E8UV only."

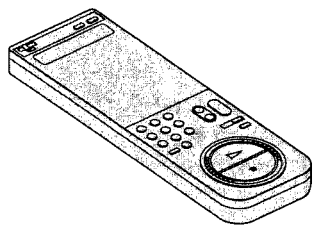
Step 1 Unpacking the VCR



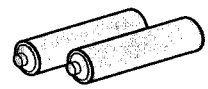
Take the unit out of the box and unpack the accessories. Check that you have the following items.

- Remote Commander (1)
- R6 (size AA) batteries (SLV-E7UB: 2, SLV-ER7UY/E8UV: 4)
- Aerial lead (1)
- Audio cable (1)
- AC mains lead (1)
- RF screwdriver (1)
- Video Plus+ Remote Commander (SLV-ER7UY/E8UV only) (1)
- Quick Start Manual (1)

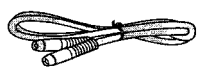
If you do not have all of these items, please contact your dealer.



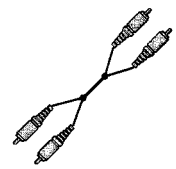
Remote Commander



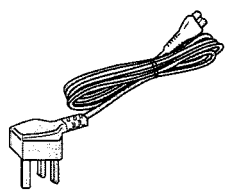
R6 (size AA) batteries



Aerial lead

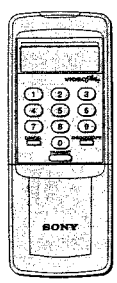


Audio cable



AC mains lead

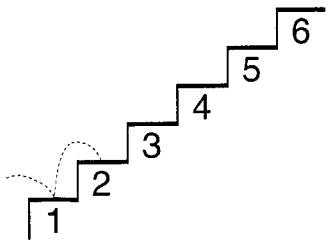
RF Screwdriver



Video Plus+ Remote Commander (SLV-ER7UY/E8UV only)

Quick Start Manual

Step 2 Preparing the Remote Commander

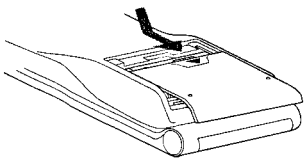


Inserting Batteries

1 Slide open and remove the cover.

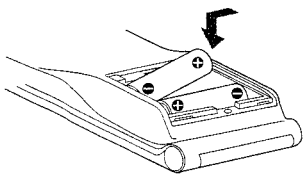
2 Insert two R6 (size AA) batteries so that the + and – polarities match the polarity diagrams inside the battery compartment.

3 Replace and close the cover.



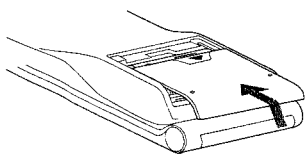
Operating the VCR with the Remote Commander

Set the TV/VTR remote control selector at the top of the Remote Commander to "VTR."



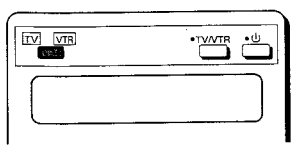
If you are using a Sony TV

You can use the Remote Commander of this VCR to operate the TV. When doing this, slide the TV/VTR remote control selector to "TV." Buttons on the Remote Commander with a dot (•) on or beside them can be used to operate your TV. To operate the VCR, return the TV/VTR remote control selector to "VTR."



How to Use the Remote Commander

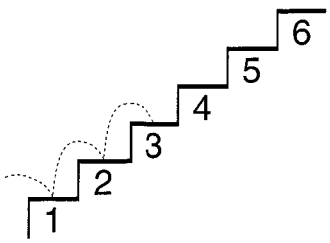
When you operate the VCR using the Remote Commander, point it at the remote sensor located on the VCR. For the location of the remote sensor, see "Identifying the Parts and Controls" on page 39.



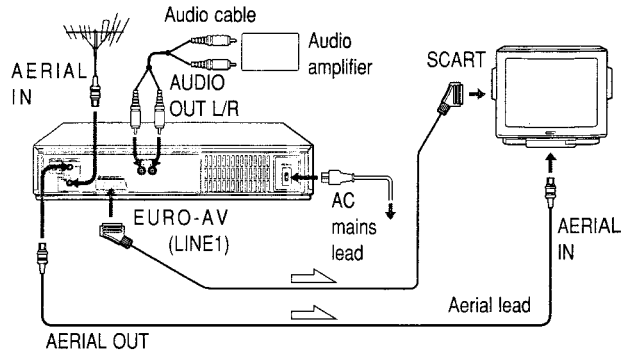
Notes:

- Under normal operation, batteries last for approximately three months. However, if the Remote Commander will not be used for a long period, remove the batteries from the compartment to avoid possible damage from battery leakage.
- Do not use a new battery together with an old one.
- Do not use different types of batteries.

Step 3 Connecting the VCR



Whenever you view video tapes as well as TV programmes on your TV screen, make sure the connections to your VCR and TV are correct. The connection between the VCR and TV varies depending on the type of TV receiver and aerial you have. First check the type of TV you have, and follow the appropriate instructions in this section.



1 Turn the VCR around so that you can see the rear panel.

2 Disconnect the aerial input lead from your TV and connect it to the socket marked AERIAL IN on the rear of the VCR.

3 Connect the aerial lead (supplied with the VCR) to the socket marked AERIAL OUT on the VCR and then plug it into the aerial input socket on your TV.

4 Check all connections to ensure they are firm.

5 Take the AC mains lead and plug it into the socket on the back of the VCR marked AC IN, then plug the other end into the wall socket.

Additional Connections

The connection using the supplied aerial lead is the basic connection for viewing and recording TV programmes. If your TV has a SCART connector, make additional connections for video viewing. Additional connections can improve picture quality. You can also make additional audio connections using the AUDIO OUT L/R jacks on the rear of the VCR to get better sound quality.

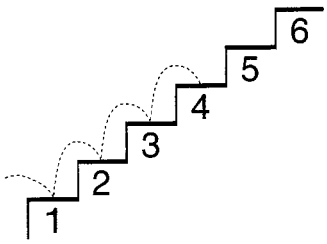
If your TV is equipped with a 21-pin SCART connector
You can obtain a higher quality picture by connecting the EURO-AV of the VCR to the SCART connector of the TV. For this you need a VMC-2121CE cable (not supplied).

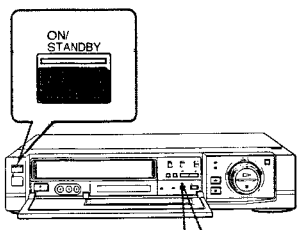
When using a SCART connector make sure to set the RF MODULATOR on the SET UP MENU to "OFF." (See page 32).

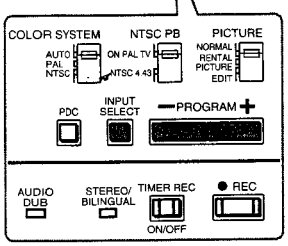
If you have connected the VCR to your TV using only the aerial sockets, you have to adjust one of the television programme positions to receive the VCR's playback signals.

When you want to make additional audio connections for audio equipment such as an amplifier
Use the audio cable (supplied) and connect it from the AUDIO OUT L/R jacks on the rear of the VCR to the AUDIO IN L/R jacks of the audio equipment you wish to use.

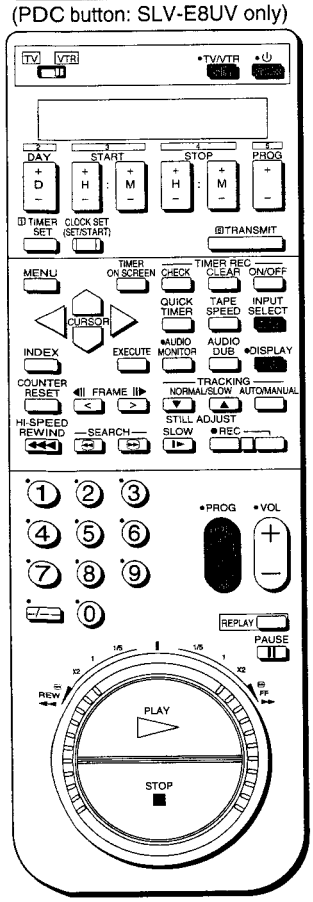
Step 4 Tuning the TV to Your VCR







(PDC button: SLV-E8UV only)



If you have connected the VCR to your TV using the EURO-AV cable, you can skip this step.

1 Turn on the TV.

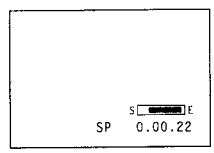
2 Press ⏻ (ON/STANDBY) on the Remote Commander or ON/STANDBY on the front of the VCR so that the green light above the button lights up.

3 PressTV/VTR button to light VTR in the display window.

4 Press INPUT SELECT to light L2 (line 2) in the display window.
To use all of the buttons on the Remote Commander, open the cover.

5 On your TV select programme position preset on UHF channel 34. If channel 34 is already used to receive TV-Broadcast, please see "If the picture shows interference" on page 11.

6 Press DISPLAY on the Remote Commander (See page 16) and tune the TV so that a blue screen with the Display (tape speed and tape counter) appears clearly on the TV screen.

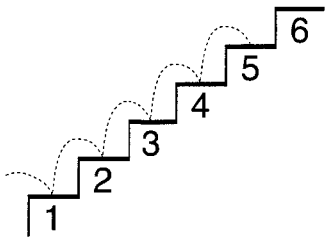


7 Press INPUT SELECT to light up the programme number in the display window.

8 Press PROG +/– (PROGRAM +/–) to check to see if the TV screen changes to a different programme.

You have now tuned your TV to the VCR. When you play back a video cassette, set the TV to the programme position selected in step 5.

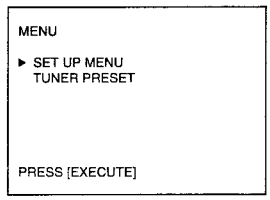
Step 5 Tuning Your VCR to Television Broadcasts



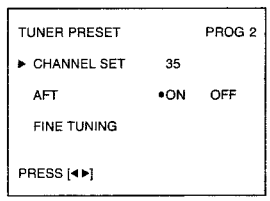
To watch and record TV programmes on your VCR, you must preset the active channels. You can preset the preferred channels using the Remote Commander and the TUNER PRESET display.

Presetting Desired Channels

1 Press MENU.
The main MENU appears on the TV screen.



2 Press ▲ or ▼ to move the cursor (▶) to TUNER PRESET, then press EXECUTE.
The TUNER PRESET menu appears on the TV screen.



3 Press PROG +/– (PROGRAM +/–) to select the desired programme position.

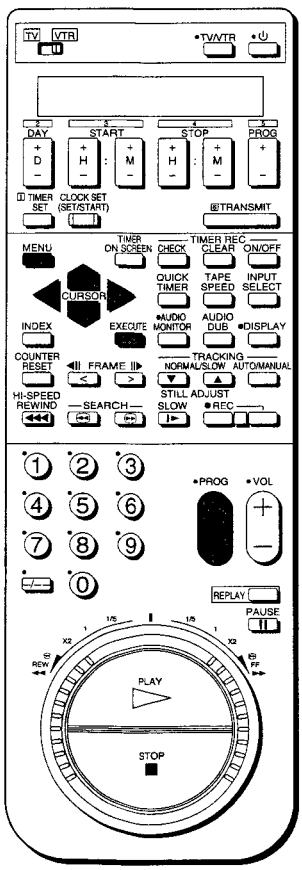
4 Press ◀ or ▶ to scan the channels.
When the first channel received in your area is detected, the channel number stops changing and the picture for that channel appears for approximately 5 seconds, after which the blue screen appears. The above illustration shows the display when channel 35 is detected at programme position 2.

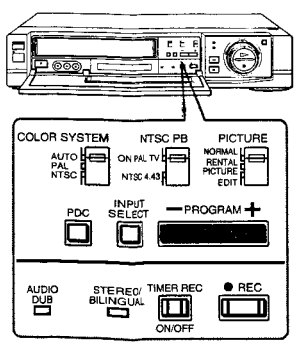
5 If the channel detected in step 4 is not the desired one, press ◀ or ▶ until the picture for the desired channel is detected.

Note
When you keep ◀ or ▶ pressed, UHF channels 21 to 69 are scanned.

6 To allocate other channels to the next programme position, repeat steps 3 to 5.

7 Press EXECUTE to store all the allocated channels and to return to the original TV screen.





(PDC button: SLV-E8UV only)

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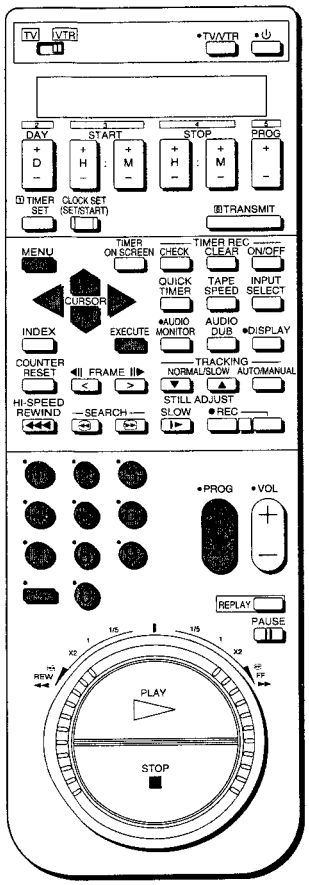
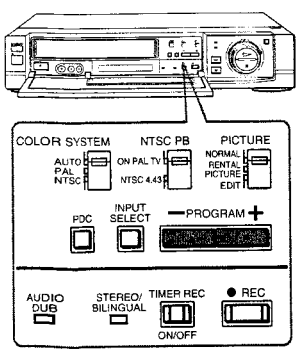




(PDC button: SLV-E8UV only)

Allocating the Channels Directly

Enter the desired programme numbers using the programme number buttons. To enter single digits, press the desired number. To enter a two digit number such as 24, press the –/-- (10s digit) button, then press 2 and 4.

Disabling Unwanted Channels

If you want only the desired programme positions to appear when you select the programme position for normal recording, timer recording or quick-timer recording, you can do this by following the procedure below.

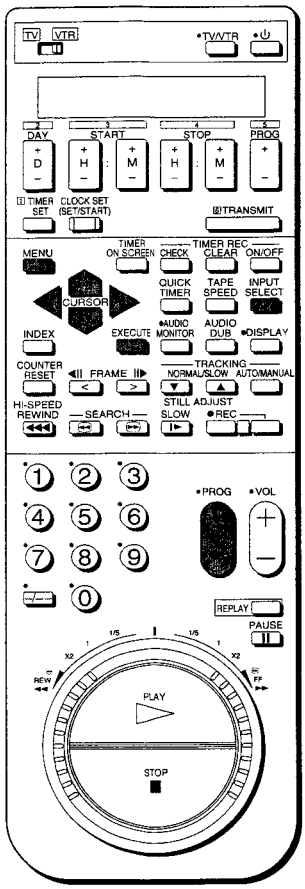
1 Press MENU, then press ▲ or ▼ to move the cursor (▶) to TUNER PRESET, then press EXECUTE.

2 Press PROG+/– (PROGRAM +/–) until the programme position you want to disable appears in the PROG field of the TUNER PRESET menu.

3 Press the programme position number button "0" twice or keep pressing the cursor keys ◀ or ▶ until "0" is displayed in the CHANNEL SET field.

4 Repeat steps 2 and 3 to disable other programme positions.

5 Press EXECUTE.



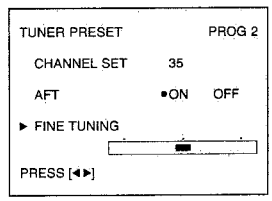
Fine Tuning

This VCR has been designed to tune in channels automatically. This function is called "Auto Fine Tuning" (AFT).
If the AFT does not produce a clear picture, you can also use the manual tuning function.

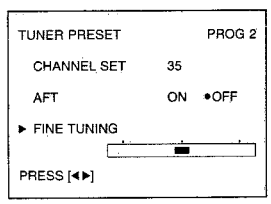
1 Press PROG +/– (PROGRAM +/–) to select the programme position for which you can't get a clear picture.

2 Call up the TUNER PRESET menu.
(See "Presetting Desired Channels" on page 9.)

3 Press ▲ or ▼ to move the cursor (▶) to FINE TUNING.
The FINE TUNING meter appears.

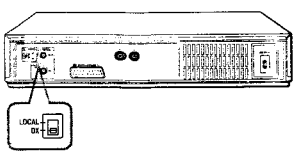


4 Press ◀ or ▶ until you obtain the best possible picture.
Note that the dot (•) beside the "ON" of the AFT position automatically moves to "OFF."



To improve the TV signal

The LOCAL/DX switch on the rear of the VCR is provided to strengthen or attenuate the reception signals. Normally set this switch to the DX position. If the reception signals are very strong, set it to the LOCAL position.

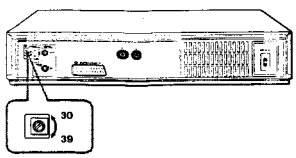


If the picture shows interference

1 Select a programme position on the TV between UHF channels 30 and 39, where the TV displays no picture and a rustling sound or no sound at all is heard.

2 Press INPUT SELECT to light L2 (line 2) in the display window.

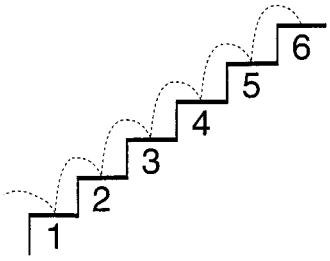
3 Turn the RF CHANNEL screw at the rear of the VCR with the supplied RF screwdriver, to a position where the TV clearly displays a blue screen with the Display (tape speed and tape counter indicators).



4 Press INPUT SELECT to light up the programme number in the display window.

5 Press PROG +/– (PROGRAM +/–) to check to see if the TV screen changes to a different programme.

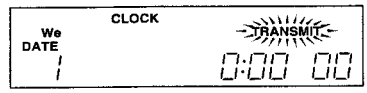
Step 6 Setting the Clock

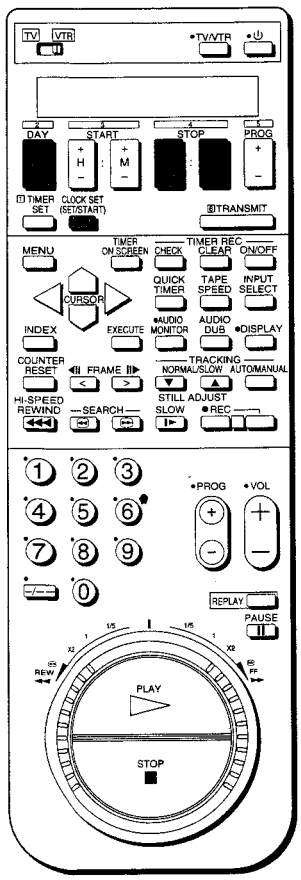


The last thing you need to do in getting started is to set the VCR clock on the Remote Commander.

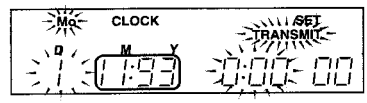
Example: To set to 15:30, 27th November, 1993

1 Press CLOCK SET.

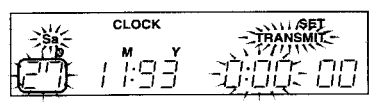




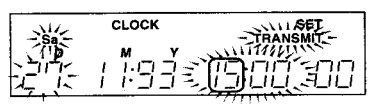
2 Press the D (DAY) button until 11 M (Month) 93 Y (Year) appears.
When the day display goes beyond 31, the month advances.



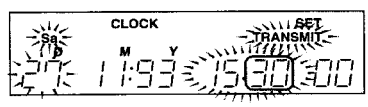
3 Press the + or – side on the D (DAY) button until 27 appears.
The day of the week is set automatically.

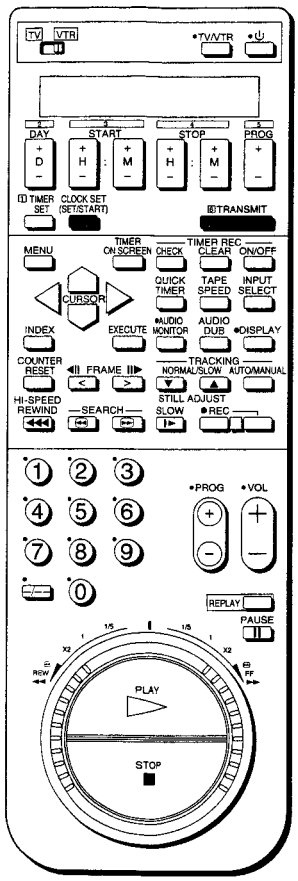


4 Press the H (Hour) button in the STOP section to set the hour to 15.

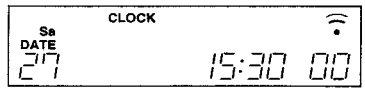


5 Press the M (Minute) button in the STOP section to set the minutes to 30.

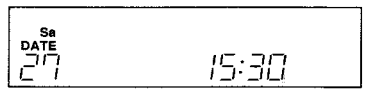




6 Point the Remote Commander at the VCR and press TRANSMIT.
When time and date are transmitted successfully, a beep sounds.



7 Check the display window of the VCR to see if the display shows the current time, and press CLOCK SET.



(On the Remote Commander)

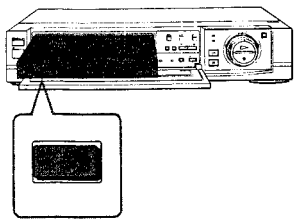
(On the VCR)

When –:–– lights up in the VCR display window
Any time power is interrupted for more than one hour, you will see –:–– lighted when power is restored. You will have to re-set the date and clock again.

When a short beep sounds repeatedly
The VCR is in timer recording or quick timer recording or standby mode for timer recording, and the setting cannot be transmitted.

To correct the preset date and time
Open the Remote Commander cover and repeat steps 1 to 7.

Playback



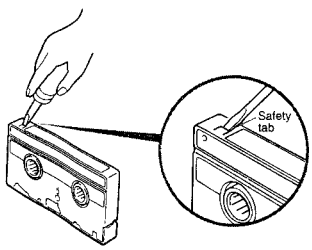
Inserting a Video Cassette

1 Open the drop down panel.

2 Gently press the centre of the front side of the cassette with the arrow indication facing upwards until the mechanism draws it into the compartment.
When the cassette has been loaded, the cassette indicator lights in the display window, the VCR turns on, and the time and date clock switches to the tape counter automatically.

Ejecting a Video Cassette

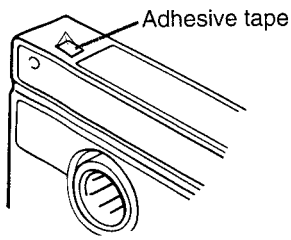
Press ▲ EJECT on the VCR.
The cassette indicator light in the display window goes out. When the cassette is ejected the tape counter switches to the time and date clock automatically.
You can eject the cassette even when the power is off, so long as the AC power cord is plugged into the wall outlet.

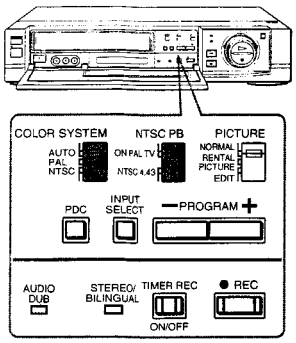


Protecting your cassette against accidental erasure

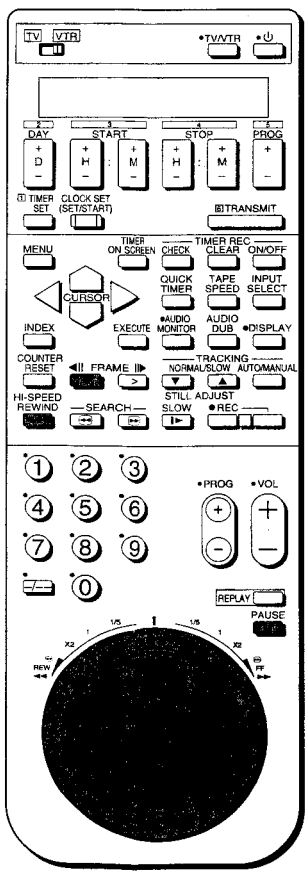
Cassettes have a safety tab to protect against accidental recording.
Break off the safety tab with a screwdriver or other tool.
If the safety tab is removed, the cassette is ejected when you try to record on it.

To record on a cassette with the safety tab broken off
Simply cover the tab hole with adhesive tape.





(PDC button: SLV-E8UV only)



Note:
Tapes recorded in EP mode (NTSC system) will not reproduce hi-fi sound when played back.

Playing Back a Cassette

This VCR automatically detects the tape speed (SP or LP for PAL system video tapes and SP or EP for NTSC system video tapes) with which a video cassette was recorded. If you insert a cassette with its safety tab removed, playback starts automatically.

Note: The OPC function operates automatically during playback if the OPC button/ indicator is on and lit. For details, see page 35.

1 Insert a cassette.
The VCR turns on automatically.

2 Turn on the TV.
If you have made only an aerial connection, switch the TV to the programme position you set the VCR to in "Step 4 Tuning the TV to your VCR" on page 8.

3 Set the COLOR SYSTEM switch on the VCR to conform to the colour system of the cassette to be played back. Normally this switch should be set to AUTO. If streaks appear when playing back a video tape, select the colour system format that matches the format the video tape was recorded with to obtain a better picture. After you are finished, return the COLOR SYSTEM switch to the AUTO position.

Colour system	Switch position
PAL	PAL
NTSC	NTSC

4 If you are playing back an NTSC-recorded tape, set the NTSC PB switch to conform to the TV system you are using. See page 17.

5 Press ► PLAY.
When the tape reaches the end, the VCR automatically rewinds the tape to the beginning (auto rewind).

To stop playback
Press ■ STOP.

To stop playback for a moment
Press II PAUSE.
Press II PAUSE again or press ► PLAY to resume playback.

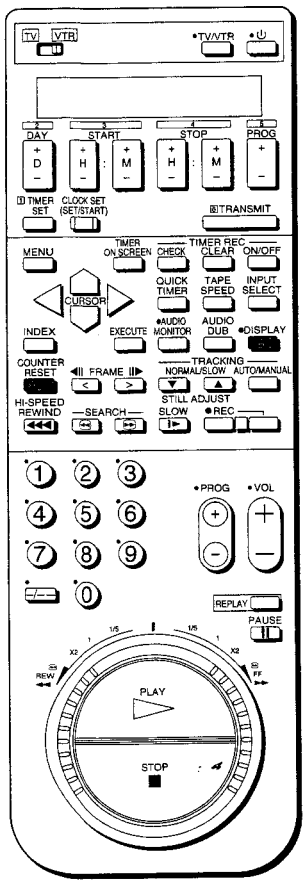
To fast forward the tape
Press ■ STOP, then turn the DUAL MODE SHUTTLE ring clockwise to FF ►►.

To rewind the tape
Press ■ STOP, then turn the DUAL MODE SHUTTLE ring counterclockwise to ◄◄ REW.
These operations will continue even if you release the ring.

To rewind the tape at a higher speed
Press ◄◄◄ HI-SPEED REWIND.

To automatically start playback after rewinding or high-speed rewinding the tape
Using the VCR only, press ► PLAY while pressing ◄◄◄ HI-SPEED REWIND or using the DUAL MODE SHUTTLE ring.

If you want to view the tape in reverse mode
Press ◄II FRAME (reverse) during playback.

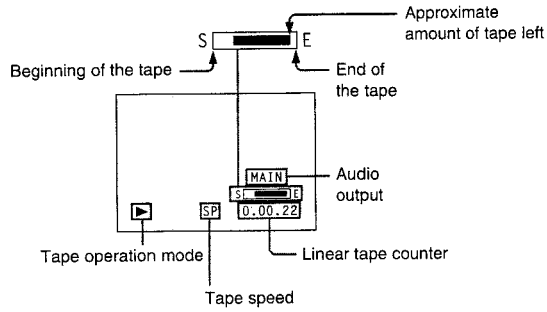


Using the Display

The Display is useful for immediately determining tape speed, tape operation mode, amount of tape remaining, tape count, and audio output. To use the Display, press DISPLAY on the Remote Commander. The Display does not appear when an NTSC recorded tape is being played back.

The Display with tape counter

When you press the DISPLAY button, the amount of the tape remaining and the linear tape count are displayed.



Note: Audio output, tape operation mode, and tape speed are displayed when you make change to them.

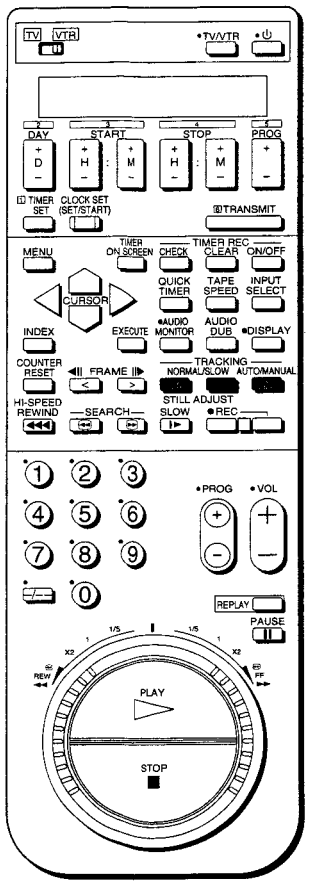
To turn off the Display

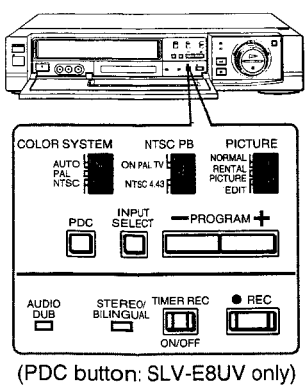
Press DISPLAY.

Note: The audio output, tape operation mode, and tape speed are displayed even when the DISPLAY is turned off.

Resetting the Tape Counter

The tape counter in the display window helps you to locate a certain scene after playback. Press COUNTER RESET on the Remote Commander to set the counter to the "0H00M00S" (counter zero position before playing back the tape). The tape counter is automatically reset to zero whenever a cassette is inserted. The VCR keeps counting the length of the tape being played back. Note, however, that the tape counter does not count the positions without video signals recorded.





(PDC button: SLV-E8UV only)

Enhancing Picture Quality

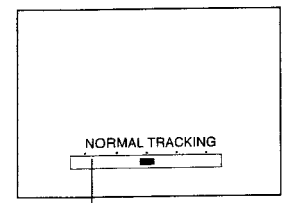
Automatic Tracking Adjustment

The AUTO TRACKING indicator in the display window flashes while the VCR is searching for the best tracking condition and lights steadily when the best possible playback picture is obtained.
If the VCR cannot find the best tracking condition, adjust the tracking manually.

Flashes.

Manual Tracking Adjustment

Press ▼/▲ on the TRACKING NORMAL/SLOW (STILL/ADJUST) buttons to get the best picture. The tracking meter appears on the screen. The distortion should disappear as you press one of the two buttons. If you cannot get a clear picture by adjusting the tracking manually, press the AUTO/MANUAL button to return to automatic tracking.



Tracking meter

Reducing Streaks and/or Snow

Select RENTAL PICTURE on the PICTURE switch on the VCR.

Auto Head Cleaner

The auto head cleaner built into the VCR automatically cleans the video heads when a cassette is loaded or unloaded. If the effect of head cleaning is not sufficient even after a cassette has been loaded/unloaded several times, clean the heads using the Sony V-25CL video head cleaning cassette. For details on head cleaning see page 45.

NTSC-recorded Tapes

You can play back a cassette recorded in either the NTSC 4.43 or NTSC 3.58 video system on a PAL system television set. If the tape is recorded on a hi-fi system, the hi-fi sound can be reproduced.

Set the NTSC PB switch according to the type of TV you have.

PAL system TV ➡ set the NTSC PB switch to ON PAL TV.
NTSC 4.43 system ➡ set the NTSC PB switch to NTSC 4.43.

Set the COLOR SYSTEM switch to AUTO, or if the picture is unclear, to NTSC.

Note:
Tapes recorded in EP mode (NTSC system) will not reproduce hi-fi sound when played back.

(Continued)

The following will occur during playback of an NTSC-recorded tape

- The display will not appear even if you press DISPLAY.
- Depending on the TV you are using, the following may occur separately or in combination:
  - the picture becomes black and white
  - the picture shakes
  - no picture appears on the screen
  - black streaks appear horizontally on the screen
  - the colour density increases or decreases
  - the audio becomes normal audio and noise occurs in the EP mode.
- If a tape has portions recorded in both the PAL and NTSC video systems, the tape counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two video systems.

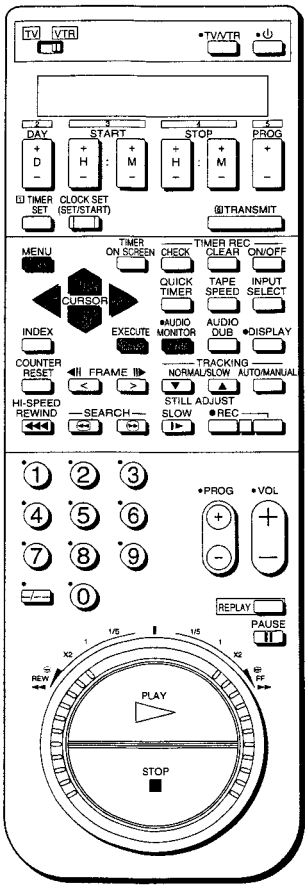
Selecting the Monitor Sound

You can select the sound you want to hear when you play back a stereo or bilingual tape, or when you want to play back a tape on which sounds were recorded on the hi-fi track and the normal audio track.

Listening to a Stereo or Bilingual Tape

Press AUDIO MONITOR to select the sound you want to hear.
With each press, you change from stereo (left and right channel sounds), to left-channel sound, to right-channel sound or to the sound on the normal audio track.

STEREO/BILINGUAL indicator	On screen display	Sound heard	
		Stereo tape	Bilingual tape
Lights up	STEREO	STEREO	Left and right channels
Lights up	LCH	Left channel	Left channel
Lights up	RCH	Right channel	Right channel
No indication	No indication	Normal audio track	Normal audio track



Listening to Mixed Sound

You can hear the sounds recorded on the hi-fi audio track and the normal audio track at the same time. The function is useful when you listen to an audio-inserted tape.

1 Press MENU.
The main MENU appears.

```
MENU

► SET UP MENU
  TUNER PRESET



PRESS [EXECUTE]
```

2 Press ▲ or ▼ to move the cursor (►) to SET UP MENU and press EXECUTE.
The SET UP MENU appears.

```
SET UP MENU

► TIMER REC-REW     ON • OFF
  DIMMER            ON • OFF
  RF MODULATOR    • ON   OFF
  AUDIO MIX         ON • OFF
  HIFI AUDIO      STD • NICAM

PRESS [◄►]
```

3 Press ▲ or ▼ to move the cursor (►) to AUDIO MIX.

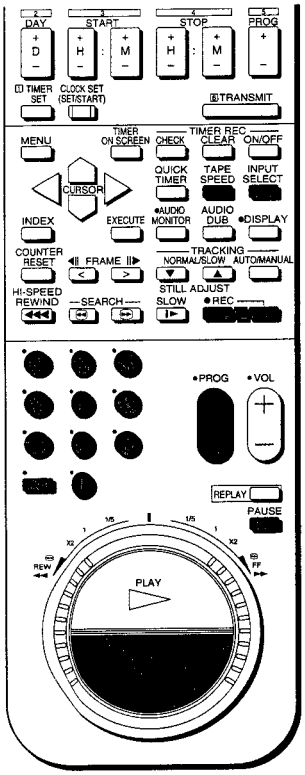
```
SET UP MENU

  TIMER REC-REW     ON • OFF
  DIMMER            ON • OFF
  RF MODULATOR    • ON   OFF
► AUDIO MIX         ON • OFF
  HIFI AUDIO      STD • NICAM

PRESS [◄►]
```

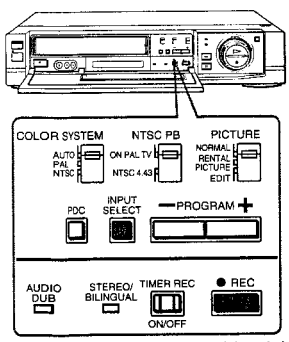
4 Select ON or OFF with ◄ or ►.
ON: To deactivate AUDIO MONITOR so that the sounds of the hi-fi audio and normal audio tracks are always output.
OFF: To activate AUDIO MONITOR so that you can select the sound to be heard.

5 Press EXECUTE to store the setting and return to the original screen.

Note:
Reset the AUDIO MIX setting to OFF after listening to the particular tape.

Recording TV Programmes





(PDC button: SLV-E8UV only)

If the tape is ejected when the REC button is pressed
The tab on the cassette is out. Use another cassette with its safety tab in place.

If you are using a Sony TV
You can use the Remote Commander of this VCR to operate the TV.
When doing this, slide the TV/VTR remote control selector at the top of the Remote Commander to "TV." To operate the VCR, return the TV/VTR remote control selector to "VTR."

You can record TV programmes in one of three ways:
- While watching the programme (this page)
- While not watching the TV at all (page 21)
- While watching another programme (page 21)

Before recording, check to see that all connections have been made correctly.

Note: The OPC function operates automatically during recording if the OPC button/ indicator is on and lit. For details, see page 35.

Recording while Watching the TV Programme

1 Turn on the TV.
If you have made the VCR/TV connection via the aerial socket, select the programme position for the VCR on the TV.

2 Insert a cassette with a safety tab into the compartment.
The VCR turns on automatically.

3 Press INPUT SELECT to light up the programme number in the display window.

4 Press TAPE SPEED to select the recording tape speed.
The selected tape speed lights up in the display window.

5 Press PROG +/– (PROGRAM +/–) to select the desired programme position.
You can also use the numbered buttons on the Remote Commander. For 2 digit numbers first press –/— and then the 2 numbers.

6 Press the two ● REC buttons on the Remote Commander at the same time.
When you control from the VCR, press ● REC only. The REC indicator lights up and recording begins. The Display appears on the TV screen. The Display is not recorded on the tape.
When the tape reaches the end, the VCR rewinds the tape automatically to the beginning.

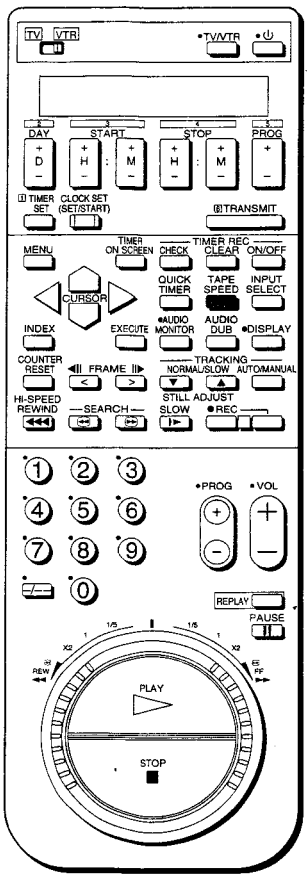
To stop recording
Press ■ STOP.

To pause recording
You can stop recording an unwanted scene and resume recording smoothly.

1 Press II PAUSE when an unwanted scene appears.
Recording stops and the VCR enters the recording pause mode.

2 Press II PAUSE again at the desired point to release the pause mode.
Recording resumes form the point set in step 1.

When the recording pause mode lasts for approximately 5 minutes, the VCR enters the stop mode.



Recording with the TV Off

Turn off the power of the TV or monitor.
There is no interference with the recording.

Recording while Watching Another Programme

Select the programme position you want to watch on the TV.

If you use a colour monitor

You cannot watch another programme during recording unless the monitor has an internal TV tuner.

Maximum Recording Time of a Cassette

Recording in either the SP or LP modes for the PAL system and playback in the SP or EP modes for the NTSC system is possible with this VCR. When recording, select the desired tape speed (SP, LP or EP) using the TAPE SPEED button. During playback, the VCR automatically detects the recording format, and then plays back the cassette in the appropriate mode.
A tape recorded in the EP mode runs three times as slowly, and a tape recorded in the LP mode runs twice as slowly, as a tape recorded in the SP mode. Refer to the charts below for the recording/playback time available in each mode.

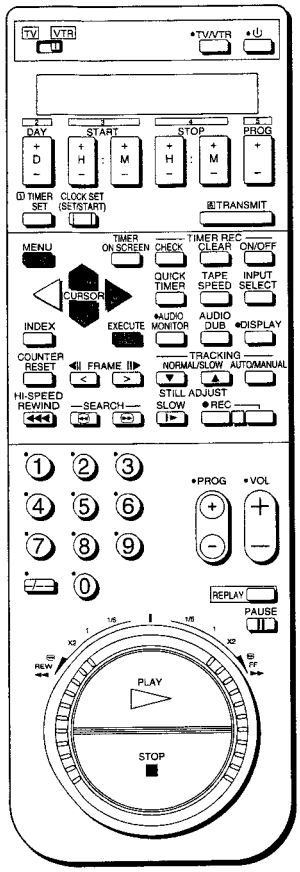
PAL colour system

Cassette Tape	Recording/Playback time	
	SP mode	LP mode
E-240	4 hrs.	8 hrs.
E-180	3 hrs.	6 hrs.
E-120	2 hrs.	4 hrs.
E-60	1 hr.	2 hrs.

NTSC colour system

Cassette Tape	Playback time	
	SP mode	EP mode
T-160	2 hrs. 40 min.	8 hrs.
T-120	2 hrs.	6 hrs.
T-60	1 hr.	3 hrs.
T-30	30 min.	1 hr. 30 min.

Note:
Tapes recorded in EP mode (NTSC system) will not reproduce hi-fi sound when played back.



Recording Stereo/Bilingual Programmes

The NICAM System

This VCR receives and records stereo/bilingual programmes based on the NICAM system. NICAM broadcasting has two-channel digital sounds called NICAM L and R channels in addition to the standard sound.
The NICAM L and R are assigned to the stereo left and right channels or the main and sub sounds of a bilingual programme.
The standard sound for most NICAM broadcasts is the mixed sound of the left and right channels for a stereo programme, and the main sound for a bilingual programme.

To receive and record the NICAM broadcast, you have to select HIFI AUDIO NICAM on the SET UP MENU. When you receive a NICAM broadcast, the NICAM indicator lights in the display window.

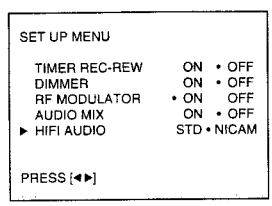
To record a NICAM broadcast

1 Press MENU.
The main MENU appears.

2 Press ▲ or ▼ to move the cursor (▶) to SET UP MENU.

3 Press EXECUTE.
The SET UP MENU appears.

4 Press ▲ or ▼ to move the cursor (▶) to HIFI AUDIO and select NICAM with ▶.

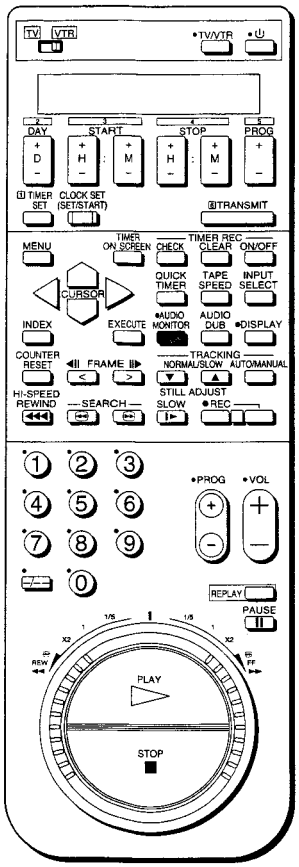


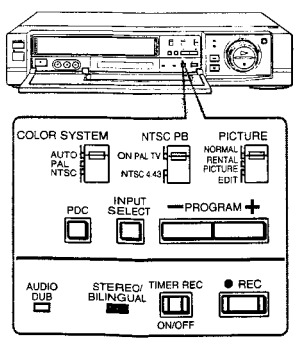
If you select STD (standard), the standard sound is recorded on the left and right channels of the hi-fi audio track and the normal audio track.

5 Press EXECUTE to store the setting.

Using the NICAM setting, NICAM broadcasts are recorded as in the following table.

Track	Sound recorded	
	Stereo	**Bilingual**
Hi-Fi Audio Left channel	Left channel	Main
Hi-Fi Audio Right channel	Right channel	Sub
Normal audio	Standard	Standard





(PDC button: SLV-E8UV only)

To select the sound you hear (If you select NICAM under HIFI AUDIO)

Stereo programmes

When a stereo programme is received, the STEREO/BILINGUAL indicator on the VCR lights up and the NICAM indicator lights up in the display window.
Press the AUDIO MONITOR button to select the sound you want to hear. Each time you press the AUDIO MONITOR button, the STEREO (NICAM L and R channels) or the standard sound is selected alternately.

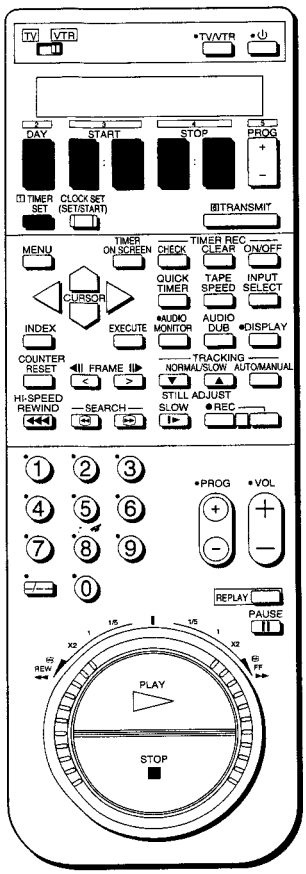
STEREO/BILINGUAL indicator	On-screen display	Sound heard
Lights up	STEREO	Left channel sound on the left channel and right sound on the right channel
No indication	No indication	Standard sound

Bilingual programmes

When a NICAM broadcast signal is received, the NICAM indicator lights up in the display window and you can select the sound you want to hear. Press the AUDIO MONITOR button on the Remote Commander to select the sound you want to hear. With each press of the button, sound is changed in the following order.

STEREO/BILINGUAL indicator	On-screen display	Sound heard
Lights up	MAIN	Main sound
Lights up	SUB	Sub sound
Lights up	MAIN/SUB	Main sound on the left channel Sub sound on the right channel
No indication	No indication	Standard sound

Timer Recording



The Timer Recording function allows you to preset your VCR to record up to eight programmes within a one-month period.

Before you begin

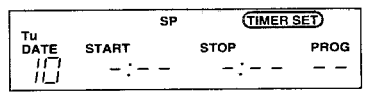
- Check to make sure that the time and date clock is set correctly. (See "Setting the Clock" on page 12.)
- Check to see that the video cassette is long enough to record all the programmes.
- Check to make sure that the safety tab of the video cassette has not been removed. If you insert a cassette without a safety tab and try to set the timer, a short beep sound is heard repeatedly and the cassette is automatically ejected from the VCR.

Setting the Timer

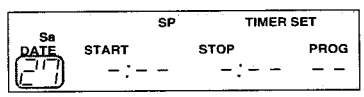
Example

Here's how to record a programme broadcast on channel 26 from 20:00 to 21:55 on Saturday, 27th November 1993.

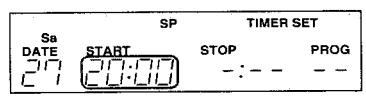
1 Press TIMER SET.



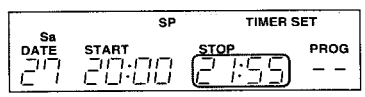
2 Press the + or – side on the D (DAY) button until 27 appears.
The day of the week is set automatically.

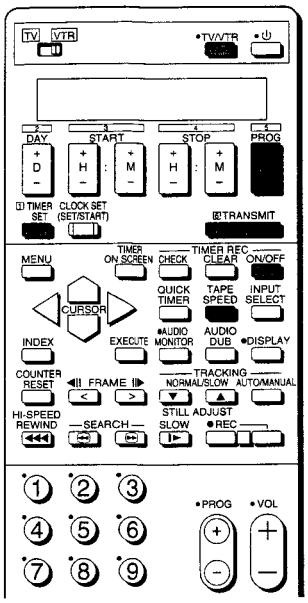


3 Press the H (Hour) button and then the M (Minute) button in the START section to set the recording start time.



4 Press the H (Hour) button and then the M (Minute) button in the STOP section to set the recording end time.





If a short beep tone sounds repeatedly when you press TRANSMIT

A short beep sounds repeatedly when the VCR fails to receive the command transmitted from the Remote Commander. Press TRANSMIT repeatedly, and if the beep sound persists, check the following:

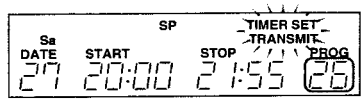
- No cassette is inserted.
- You have made an illogical operation on the Remote Commander.
- You have attempted to transmit data when the VCR is in the timer recording mode.
- You have already made eight timer settings.
- The tape is at its end.

If the power is interrupted while in the timer recording standby/timer recording mode for more than one hour

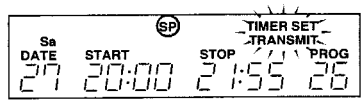
In the recording standby mode, timer settings are cleared. Reset the settings from the beginning. In the timer recording mode, the recording stops and the VCR turns off.

If the power interruption lasts for less than one hour, the VCR returns to the original mode when the power is supplied again.

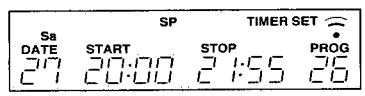
5 Press PROG +/– to select the desired programme position for recording.



6 Press the TAPE SPEED button to select the desired tape speed for recording.

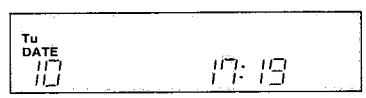


7 Point the Commander at the VCR and press TRANSMIT.
When a beep tone sounds, the VCR is ready for timer recording.



8 To set other programmes repeat steps 2 to 7.

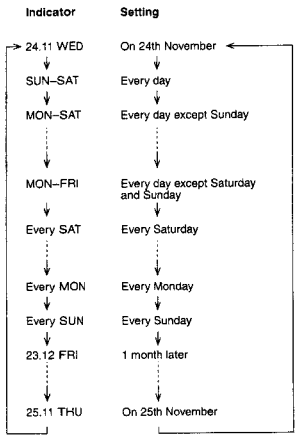
9 Press TIMER SET.
The current time appears on the LCD display.

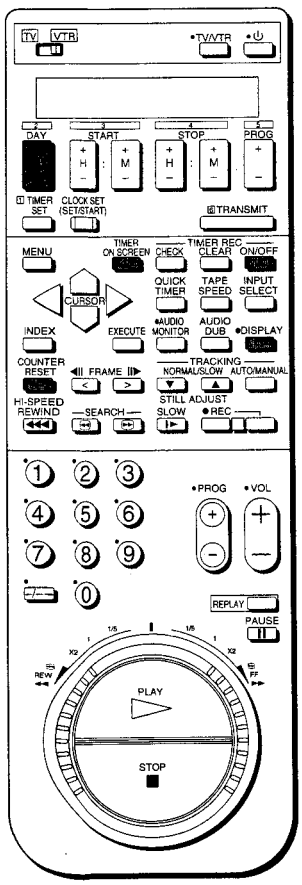


The VCR turns on automatically and starts recording at the preset start time, and goes off at the preset stop time.

To use the VCR before timer recording starts

Press TIMER REC ON/OFF, then turn on the power of the VCR, and press TV/VTR button. After using the VCR, remember to press TIMER REC ON/OFF again.





Daily/Weekly Recording

You can preset your VCR for daily or weekly recording. Daily recording records the same programme every day of the week while weekly recording records the same programme on the same day, every week.

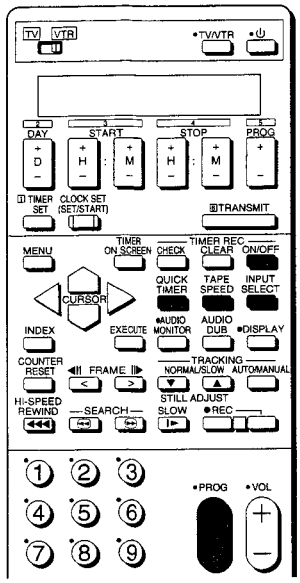
Press the D (DAY) button until the desired date appears in step 2 of "Setting the Timer" on page 24.
Each time you press the – (minus) side of the D (DAY) button, the indication in the LCD display changes as shown on the left.

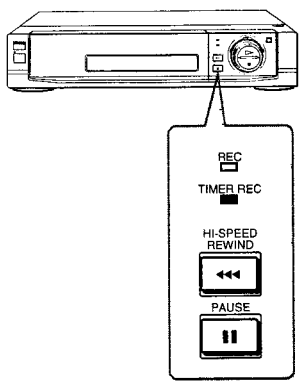
To stop timer recording

Press TIMER REC (ON/OFF).

You can use the following buttons during timer recording

TIMER REC (ON/OFF)	To stop timer recording
COUNTER RESET	To reset the counter to "0H00M00S"
DISPLAY	To display data screen information
TIMER ON SCREEN	To check the timer settings





Notes:

- For buttons you can use during quick-timer recording, see "You can use the following buttons during timer recording" on page 26.
- If a power interruption occurs during quick-timer recording, recording stops and your VCR shuts off. If power is restored within one hour, and it is before the recording end time, recording starts again from that point. If the interruption lasts for more than one hour, any presettings are erased and you must reset the time and date for your programmes. Note that the tape counter returns to "0H00M00S", after a power interruption.

Quick-Timer Recording

This function allows you to preset your VCR to record for a specified amount of time from now without having to set the recording start time. You can set the recording duration in increments of 30 minutes, for up to nine hours. Note, however, that it provides only an approximate setting for the programme you wish to record.
If you have not set the time and date clock correctly, quick-timer recording cannot be done.

1 Insert a cassette with a safety tab in place.

2 Press INPUT SELECT to light up the programme position number indicator in the display window.

3 Press TAPE SPEED to select the tape speed, SP or LP for the PAL system.

4 Press QUICK TIMER on the Remote Commander.
If a cassette with the safety tab removed has been inserted, the VCR ejects the cassette.

5 Press PROG +/– (PROGRAM +/–) to select the programme for recording while the programme number is flashing in the display window.

6 Press QUICK TIMER within 30 seconds after selecting the programme to start recording.
The TIMER REC indicator lights up on the VCR.

If you don't press QUICK TIMER within 30 seconds after selecting the programme position, the VCR quits the quick-timer mode.

7 Press QUICK TIMER to determine the recording duration. Each press on the button increases the recording duration in increments of 30 minutes as shown below.

→ 0:00 → 0:30 → 1:00 → ····· → 8:30 → 9:00 →

Turn off the TV, and the VCR continues recording.
The recording duration decreases minute by minute until 0:00 appears, then the VCR turns off automatically.

To stop quick-timer recording

Press TIMER REC (ON/OFF).

To extend the recording duration during recording

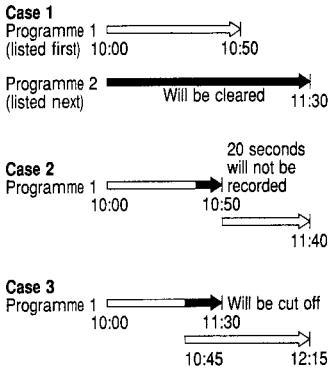
Press QUICK TIMER the desired number of times. One press on the button increases the duration by 30 minutes.

If the VCR is in the standby mode for recording

Press TIMER REC (ON/OFF) to turn off the TIMER REC indicator on the VCR and do steps 3 to 7.

Overlapping Timer Recordings

If you have made a "mistake" when presetting multiple programmes, the VCR will interpret your settings as described in the following cases.



Case 1

If you preset two programmes to record at the same time...

The programme listed first on the PROGRAM LIST display has priority over the other programmes. The timer settings for lower priority programmes are erased from the PROGRAM LIST display when recording begins for the first programme.

Case 2

If you preset programme 2 to start recording at the same time you preset programme 1 to finish recording...

The last 20 seconds of programme 1 is not recorded because the VCR enters the recording pause mode for programme 2 before programme 1 is finished.

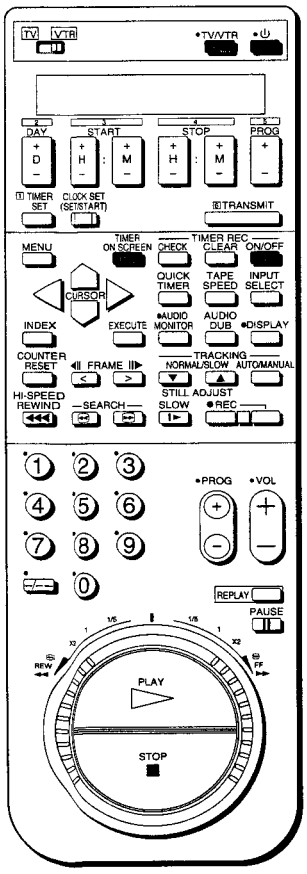
Case 3

If you set programme 2 to start recording before programme 1 is finished recording...

Programme 2 starts recording before programme 1 has finished.

Checking the Timer Settings

You can display your timer settings to confirm the programmes you wish to record.



1 Press TIMER REC (ON/OFF).
The TIMER REC indicator on the VCR turns off.

2 Press ⏻.

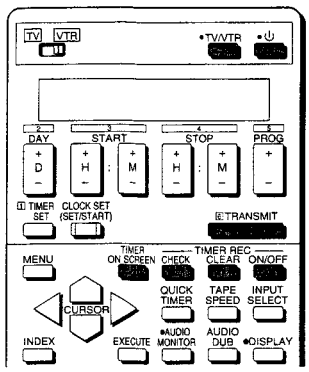
3 Press TV/VTR.

4 Press TIMER ON SCREEN.
The PROGRAM LIST appears.

```
PROGRAM LIST 24.11      WED
  DATE        START STOP  PROG
  27.11  SAT  20:00 21:55  26  SP
  13.12  MON  8:30 10:15   50  LP
  MON - SAT  21:00  0:00   L2  LP
  EVERY SUN   9:55 12:30   12  SP
```

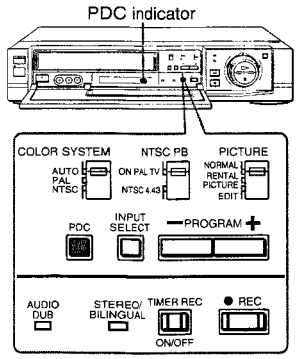
5 Press TIMER ON SCREEN to return to the original screen.

6 Press TIMER REC (ON/OFF).
The VCR returns to the timer recording standby mode.



Notes:

- If you preset a programme to record only once, that setting is deleted from the PROGRAM LIST display when recording has finished.
- To check the timer settings during timer recording, do steps 3 to 4 under "Checking the Timer Settings" on page 28.



(PDC button: SLV-E8UV only)

Notes on PDC Recording

- If recording times overlap due to a PDC timer shift, the programme that was broadcast first has priority. The second programme will begin to record only when the first programme has finished.
- The PDC button is effective only when TIMER REC does not light up on the VCR.
- If the PDC signal is too weak or the broadcasting station failed to transmit PDC signals, the VCR will record the programme without using the PDC function even if the PDC indicator is lit in the display window.
- Make sure that you enter the times exactly as indicated in the TV programme guides, otherwise the recording will not be made.
- To use the PDC function properly, set the timer separately for each programme.

Changing or Cancelling the Timer Settings

You can change or cancel the timer settings by referring to the PROGRAM LIST display.

1 Press TIMER REC (ON/OFF).
The TIMER REC indicator on the VCR turns off.

2 Press ⏻.

3 Press TV/VTR.

4 Press TIMER REC CHECK to display the PROGRAM LIST.

5 Press TIMER REC CHECK to move the cursor (▶) to the programme you wish to change or cancel.

PROGRAM LIST		24.11		WED
DATE		START	STOP	PROG
▶ 27.11	SAT	7:00	8:00	6 SP
13.12	MON	8:30	10:15	50 LP
MON – SAT		21:00	0:00	L2 LP
EVERY	SUN	9:55	12:30	12 SP

6 To change the setting
Re-enter all the items and transmit the new settings to the VCR.
(See "Setting the Timer" steps 1 to 7 on pages 24 and 25.)
The VCR is automatically ready for the timer recording, or enters the timer recording standby mode.

To cancel the setting
Press TIMER REC CLEAR. To return to the original screen, press TIMER ON SCREEN. If there are other timer settings on the list, press TIMER REC ON/OFF to return to the timer recording standby mode.

PDC Recording (SLV-E8UV model only)

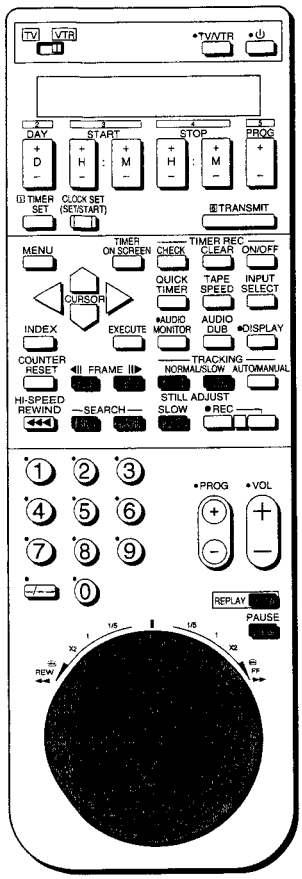
The broadcasting system transmits PDC (Programme Delivery Control) signals with its TV programmes. These signals assure you that your timer recording are made regardless of broadcast delays, early starts, or broadcast interruptions. For example, if an urgent news bulletin interrupts a regular programme, recording will stop. As soon as the interrupted programme resumes, recording starts again.

1 Make sure the TIMER REC indicator is not lit on the VCR.

2 Before setting the timer to record, press PDC on the VCR so that the PDC indicator lights in the VCR display window.

3 Set the timer following the steps under "Timer Recording" (page 24).
The VCR will enter standby mode for PDC recording before the turn-on time so as to be ready if there is a change in the start time. The PDC indicator in the display window lights up when you press the PDC button on the VCR.

Variable Speed Playback



The following section explains the advanced playback functions available on your VCR. No sound is heard during these operations.

Variable Speed Playback Using the DUAL MODE SHUTTLE Ring

You can enjoy variable speed playback using the DUAL MODE SHUTTLE ring on either the VCR or the Remote Commander.
In any playback mode, turn the DUAL MODE SHUTTLE ring in either the forward or reverse direction. When you release the ring, normal playback resumes.

Pausing the Picture

During playback, press II PAUSE. To resume normal playback, press either ► PLAY or II PAUSE. If you leave your VCR in pause mode, normal playback resumes after approximately 5 minutes.

Picture Search

During playback, turn the DUAL MODE SHUTTLE ring to ◄◄ REW (rewind) or FF ►► (fast forward).
A high-speed picture appears on the TV screen.
To resume normal playback, release the DUAL MODE SHUTTLE ring at the desired scene.

Locked Picture Search

This feature allows you to lock in and view a high-speed picture while playing or pausing a tape.
During playback or while in the pause mode, press ⏩ SEARCH (forward) or ⏪ SEARCH (reverse). You can also use the II► FRAME (forward) and ◄II FRAME (reverse) buttons to change direction after either the ⏩ SEARCH or ⏪ SEARCH buttons have been pressed.
To resume normal playback, press ► PLAY.

Slow-motion Playback

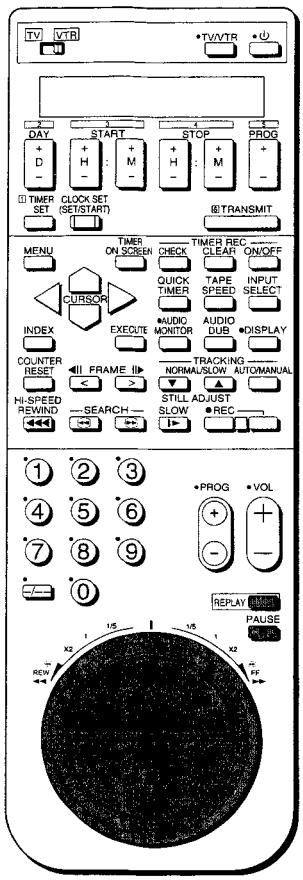
During playback or while in the pause mode, press I► SLOW (1/5 of normal speed). You can also use the ◄II FRAME (reverse) and FRAME II► (forward) buttons to change direction during slow-motion playback. To view a tape in slow motion in forward mode using the DUAL MODE SHUTTLE ring, turn the DUAL MODE SHUTTLE ring clockwise (for forward viewing) to 1/5, and for reverse counterclockwise (for reverse viewing) to 1/5.

Frame-by-frame Picture

While in the pause mode, press ◄II FRAME to reverse the picture one frame. Press FRAME II► to advance the picture one frame.
To resume normal playback, press either ► PLAY or II PAUSE.

To reduce the bands on the top or bottom of the screen while in pause mode
Change to the slow motion play mode and adjust the picture with TRACKING NORMAL/SLOW (STILL ADJUST) ▼/▲.

To reduce the picture shaking while in pause mode
Adjust the picture with TRACKING NORMAL/SLOW (STILL ADJUST) ▼/▲.



Note :
Noise may occur and the colour may normally not be reproduced during variable speed playback when you play tapes recorded in LP speed depending on the TV connected to the VCR.

Replay Picture

While in the playback or pause modes, press REPLAY once on the Remote Commander. For two seconds, as displayed on the counter, the previous scene is played back in reverse mode at -X1 speed. It is then played back in forward mode at X1/5 speed (slow motion). Press REPLAY and hold it down to return to a desired scene. Release the REPLAY button to play back the scene at X1/5 speed (slow motion).
To resume normal playback or enter the pause mode, press either ► PLAY or II PAUSE.

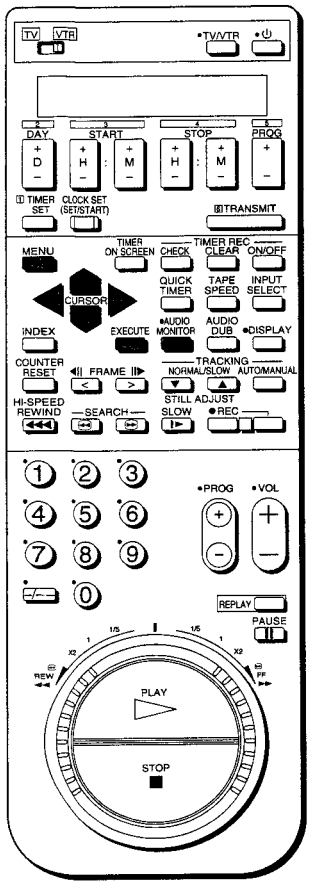
X2 Normal Speed Playback

Using this function you can view the contents of your tape at two times the normal speed in either the reverse or forward modes. To view a tape at two times the normal speed in forward mode turn the DUAL MODE SHUTTLE ring clockwise to X2, and for reverse mode conterclockwise to X2. When you release the ring, normal playback resumes.

Viewing the Picture During Fast-forward or Rewind

During fast-forward, turn the DUAL MODE SHUTTLE ring clockwise to FF ►►.
During rewind, turn the DUAL MODE SHUTTLE ring counterclockwise to ◄◄ REW.
To return to the fast-forward or rewind mode, release the ring.

Customizing Your VCR – SET UP MENU



You can customize your VCR using the SET UP MENU.

1 Press MENU.
The main MENU appears.

2 Press ▲ or ▼ to move the cursor (▶) to SET UP MENU.

3 Press EXECUTE.
The SET UP MENU appears.

```
SET UP MENU

▶ TIMER REC-REW      ON • OFF
  DIMMER             ON • OFF
  RF MODULATOR     • ON   OFF
  AUDIO MIX          ON • OFF
  HIFI AUDIO       STD • NICAM

PRESS [◀ ▶]
```

4 Press ▲ or ▼ to move the cursor (▶) to the menu choice you want, then press ◀ or ▶ to move the dot (•).
See below for menu choices.

5 Press EXECUTE to store the setting.

Menu choices

• TIMER REC-REW
Select "ON" to automatically rewind the tape after all timer settings have been recorded, or select "OFF" to cancel this setting. If the tape has reached the end it is automatically rewound regardless of the timer settings made.

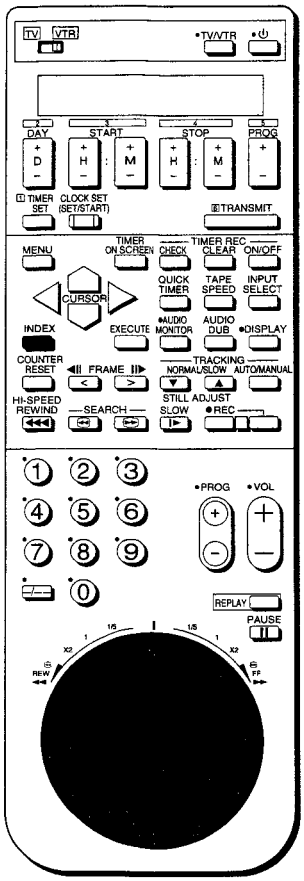
• DIMMER
Select "ON" to make the display window dimmer, or select "OFF" to make the display window brighter.

• RF MODULATOR
Select "ON" if you have made the VCR/TV connection via the aerial socket only. Select "OFF" if you have made the VCR/TV connection via the EURO-AV connector. If you have made the VCR/TV connection via the aerial socket only, and if you select RF MODULATOR to "OFF" then picture disappears. To get back the picture repeat from step 1.

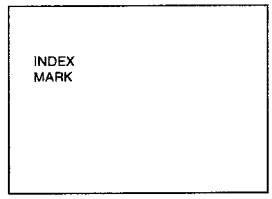
• AUDIO MIX
Select "ON" to make the AUDIO MONITOR button inoperative so that the sounds of the hi-fi video and normal audio tracks are always output, or select "OFF" to make the AUDIO MONITOR button operative so that you can select the sound to hear.

• HIFI AUDIO
Select "NICAM" to record a NICAM broadcast on a hi-fi audio track, or select "STD" to record only standard sound on a hi-fi audio track. (See page 22.)

Index Function



You can find specific scenes easily using the markings (index points) recorded on a cassette. This function is called the index function.
The VCR automatically inserts index signals each time you use the recording, timer recording or quick-timer recording functions (index mark). The index works as a divider between scenes, and is not numbers. So, when you specify the index mark later, you have to specify the relative position from the current position (the first index, the second index... from the current position). When going from the recording pause mode to the recording mode, an index mark is not inserted.

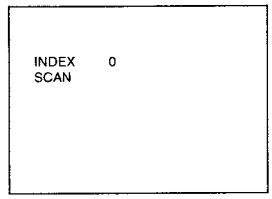


Playing Back from the Index Point – INDEX SCAN

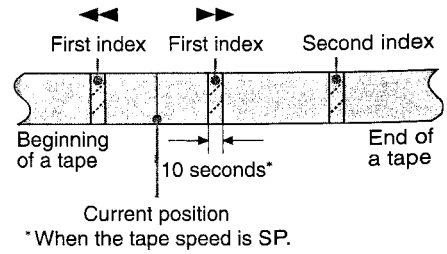
Here's how to find and play back a programme you've marked with an index signal.

1 Insert an indexed cassette into your VCR.

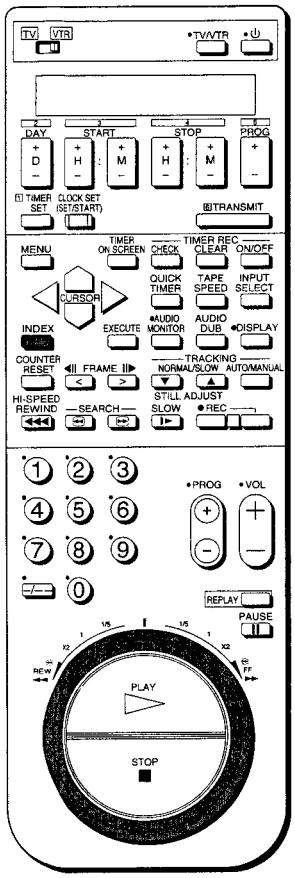
2 Press INDEX once.
The INDEX SCAN indicator appears on the TV screen.



3 Turn the DUAL MODE SHUTTLE ring clockwise to FF ►► (forward) to locate the following programme, or counterclockwise to ◄◄ REW (reverse) to locate the previous programme.
The VCR goes to the next or previous index signal. The VCR plays the tape for approximately 10 seconds and then moves to the next index in the selected direction. The index number changes one by one.



4 Press ► PLAY when you locate the desired index signal.



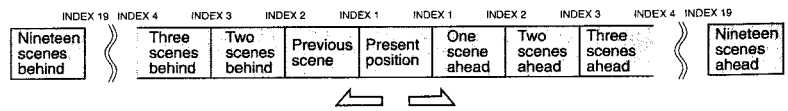
Locating an Index Mark – INDEX SEARCH

You can find an index point where you want to start playback, by entering a specific number.
For example: INDEX 8 is the number of the index signal marked on the scene you want to view.

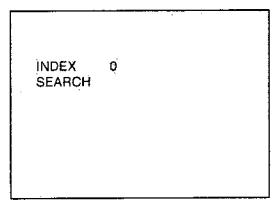
1 Insert a cassette with index signals marked on it.

2 Press INDEX repeatedly until the index mark number from which you want to start playback appears on the TV screen.

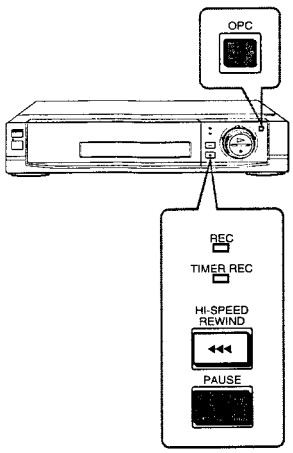
You can search for up to 19 index marks behind or ahead of the present position.

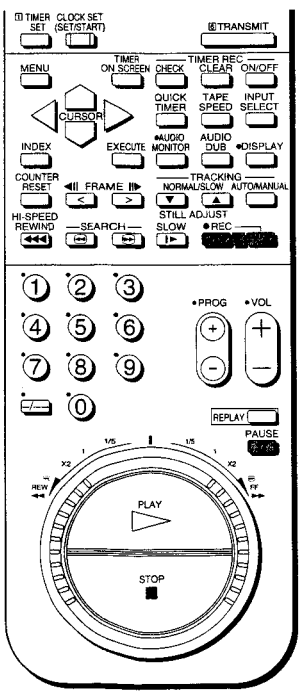


3 Turn the DUAL MODE SHUTTLE ring clockwise to FF ►► (forward) to locate the following programme or counterclockwise to ◄◄ REW (reverse) to locate the previous programme.
The VCR starts searching and the index number is counted down to zero.
Playback starts from the desired point.



OPC (Optimum Picture Control)





Notes:

- Tapes recorded using the OPC function are played back normally on VCRs that do not have the OPC function.
- If you have the PICTURE switch on the VCR set to EDIT, the OPC function does not operate when playing back a tape but does operate when recording. When you are editing tapes (dubbing) using this unit as either the recording VCR or the playback VCR, use the EDIT setting.

This function allows you to improve recording and playback quality by adjusting the system parameter automatically to the condition of the video heads and video tape. To maintain better picture quality it is advisable to leave the function on so that the OPC button/indicator remains lit.

Using the OPC Function when Recording

Before you start recording, press the OPC button/indicator on the VCR so that it lights up. Press ● REC.
The OPC light flashes rapidly while the tape is being measured. The complete measurement is retained until the cassette is ejected. If you use that same tape again without ejecting it, the tape is not measured again.

When you are in the recording pause mode and the OPC button/indicator flashes slowly

The OPC function does not work if you press II PAUSE to release the pause mode. To use the OPC function, press ● REC. After measurement is completed, the VCR returns to the recording pause mode. Press II PAUSE to start recording.

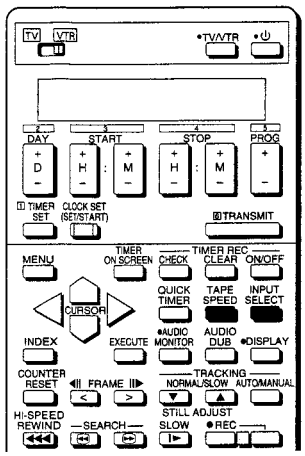
When you are using timer recording

When you want to use the OPC function during timer recording pause mode, press the OPC button/indicator on so that it lights up.

Using the OPC Function when Playing Back a Tape

When the OPC button/indicator is on, the OPC function works on all types of tapes, including rental tapes. You can play back a tape using the OPC function even if the tape was not recorded with it.

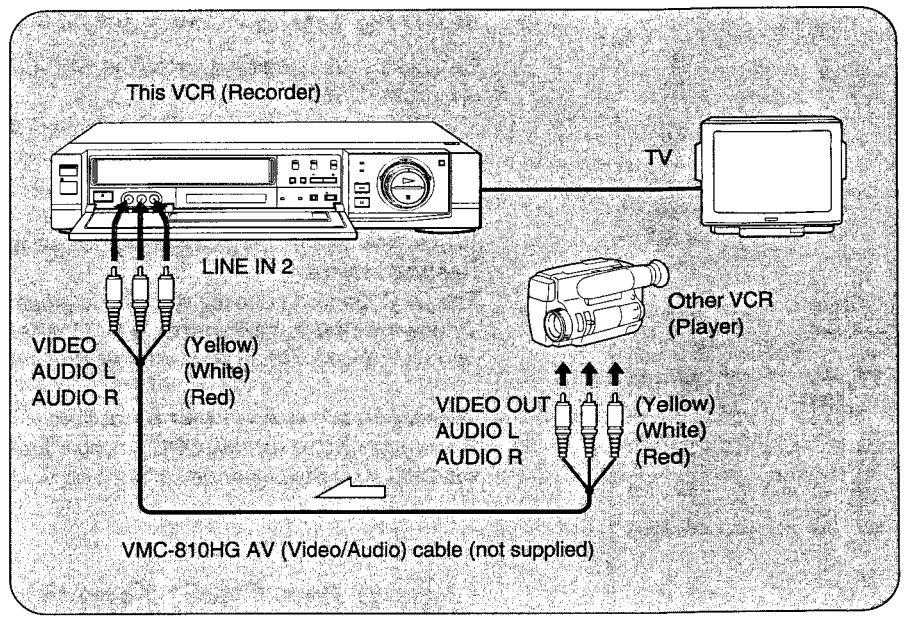
Tape Dubbing

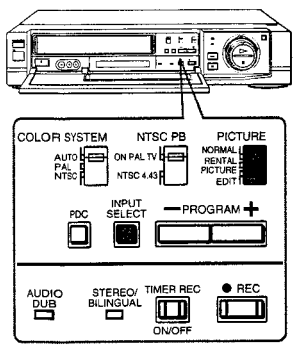


Using an additional VCR, you can record programmes from one VCR to another.

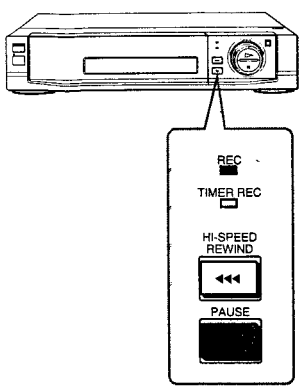
Editing from Another VCR

Here's how to edit from another VCR (such as an 8 mm video camera recorder for playback) when using this VCR for recording.





(PDC button: SLV-E8UV only)



Before you begin

- On this VCR select L2 (LINE IN 2) with INPUT SELECT.
- On this VCR select SP or LP using the TAPE SPEED button on the Remote Commander. (See page 21.)
- On this VCR set the PICTURE switch on the VCR to EDIT. If the other VCR has a similar switch, set it to EDIT as well.

1 Insert a cassette with a safety tab into this VCR.

2 Turn on the power of the playback VCR and insert a source cassette without a safety tab.

3 Find the playback start point and set the other VCR (playback VCR) to playback pause.

4 Find the recording start point and set this VCR (recording VCR) to recording pause.

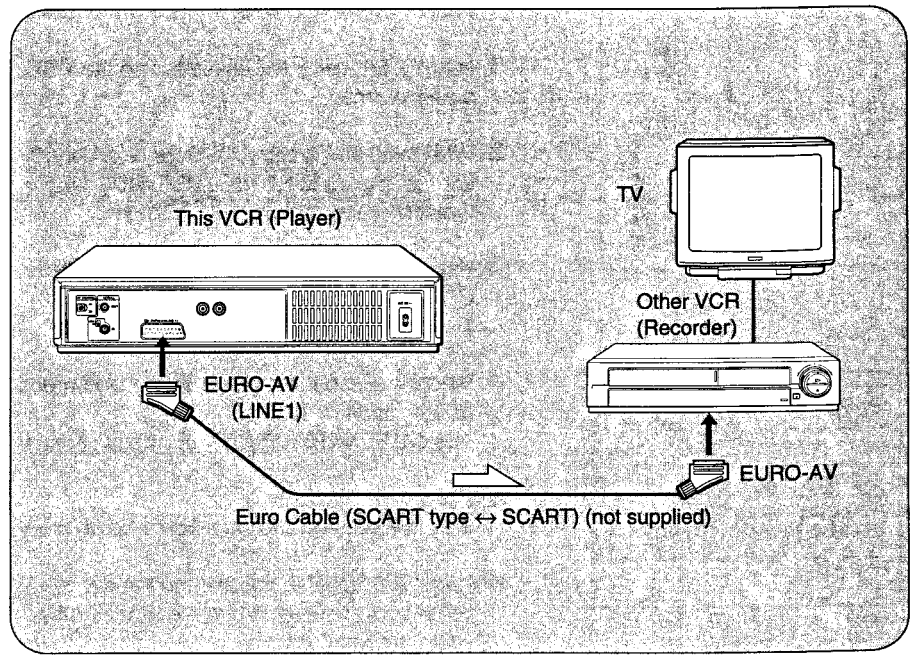
5 Press II PAUSE on both VCRs.
For best results, press II PAUSE on the playback VCR just before pressing II PAUSE on the recording VCR.
When you have finished editing, press ■ STOP on both VCRs.

Note :

You can connect another VCR to the EURO-AV connector. In this case select LINE 1 with INPUT SELECT.

Editing onto Another VCR

Here's how to edit onto another VCR when using this VCR for playback.



Before you begin
On this VCR set the PICTURE switch on the VCR to EDIT.
If the other VCR has a similar switch, set it to EDIT as well.

1 Insert a cassette without a safety tab into this VCR.

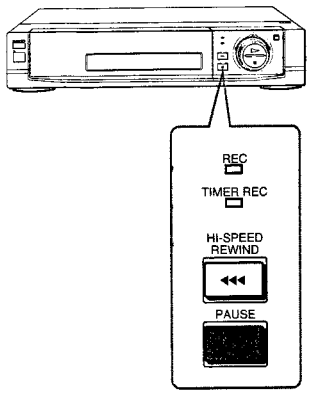
2 Turn on the power of the recording VCR and insert a source cassette with a safety tab in place.

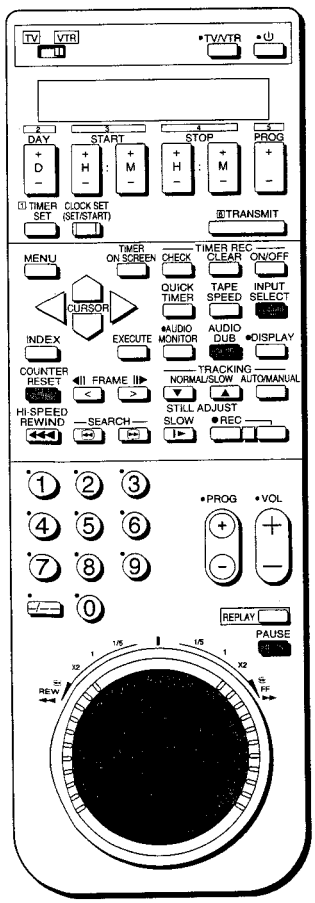
3 Find the playback start point and set this VCR (playback VCR) to playback pause.

4 Find the recording start point and set the other VCR (recording VCR) to recording pause.

5 Press II PAUSE on both VCRs.
For best results, press II PAUSE on the playback VCR just before pressing II PAUSE on the recording VCR.
When you have finished editing, press ■ STOP on both VCRs.

Notes:
If you have the PICTURE switch on the VCR set to EDIT, the OPC function does not operate when playing back a tape but does operate when recording.
When you are editing tapes (dubbing) using this unit as either the recording VCR or the playback VCR, use the EDIT setting.
Refer to the other VCR's instruction manual for the operation.



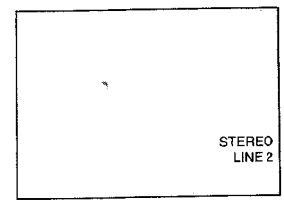


Audio Dubbing

This section shows you how to dub-over new sound onto the pre-recorded normal track. This way you can replace unnecessary sound with some other sound.

1 Insert a pre-recorded cassette into the VCR, and prepare a stereo system or other audio source.

2 When you use a stereo audio system or other audio source, press INPUT SELECT until the LINE 2 indication appears on the TV screen.



3 Find the audio dubbing end point and press COUNTER RESET.
The counter shows "0H00M00S."

4 Find the audio dubbing start point and press ⏸ PAUSE to set the VCR to playback pause mode.
The DUAL MODE SHUTTLE ring is useful for this operation.

5 Press AUDIO DUB.
The AUDIO DUB indicator lights up on the VCR.

6 Press ⏸ PAUSE to release the pause, and at the same time start the stereo system or other audio source. When the tape reaches the end (0H00M00S) sound insertion stops automatically.

To pause audio dubbing

Press ⏸ PAUSE.

To stop audio dubbing

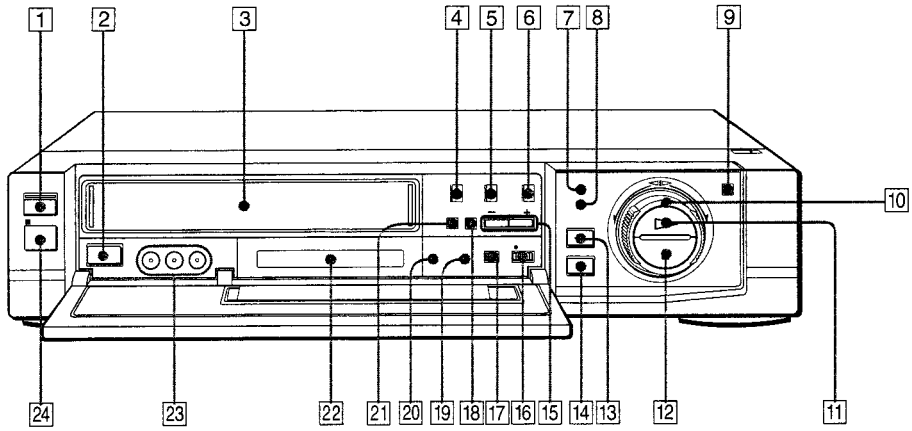
Press ■ STOP.

Note :

You can also dub-over new sound from another VCR by choosing LINE 1 with INPUT SELECT.

Identifying the Parts and Controls

Front Panel



1 ON/STANDBY switch and indicator (See page 8.)

2 ⏏ EJECT button (See page 14.)

3 Cassette compartment (See page 14.)

4 COLOR SYSTEM switch (See page 15.)

5 NTSC PB switch (See page 17.)

6 PICTURE switch (See page 17.)

7 REC indicator (See page 20.)

8 TIMER REC indicator (See page 27.)

9 OPC button/indicator (See page 35.)

10 DUAL MODE SHUTTLE ring (See pages 15 and 30.)

11 ► PLAY button (See page 15.)

12 ■ STOP button (See page 15.)

13 ◄◄◄ HI-SPEED REWIND button (See page 15.)

14 ❚❚ PAUSE button (See pages 15 and 30.)

15 PROGRAM +/– buttons (See page 8.)

16 ● REC button (See page 20.)

17 TIMER REC ON/OFF button (See page 25.)

18 INPUT SELECT button (See page 8.)

19 STEREO/BILINGUAL indicator (See page 23.)

20 AUDIO DUB indicator (See page 38.)

21 PDC button (SLV-E8UV model only) (See page 29.)

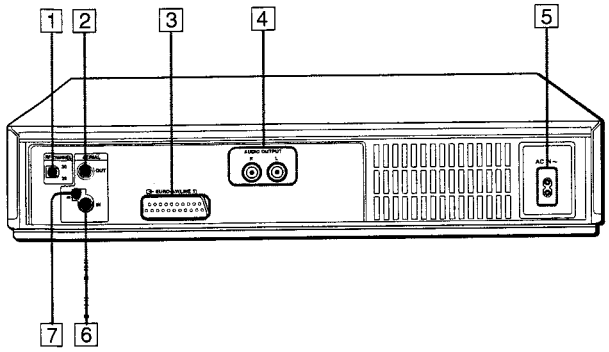
22 Display window (See page 8.)

23 LINE IN 2 VIDEO/AUDIO jacks (See page 36.)

24 Remote sensor (See page 6.)

(Continued)

Rear Panel



1 RF CHANNEL screw (See page 11.)

2 AERIAL OUT connector (See page 7.)

3 EURO-AV (See page 7.)

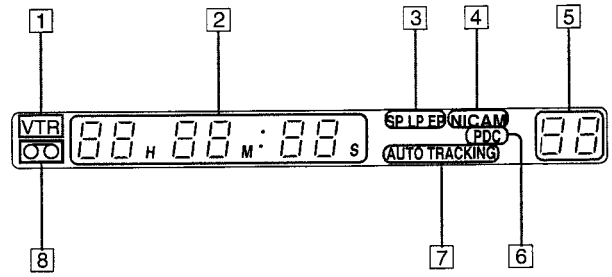
4 AUDIO OUT L/R (See page 7.)

5 AC IN connector (See page 7.)

6 AERIAL IN connector (See page 7.)

7 LOCAL/DX switch (See page 11.)

Display Window



1 VTR indicator (See page 8.)

2 Linear time counter and clock (See page 13.)

3 Tape speed indicator (See page 21.)

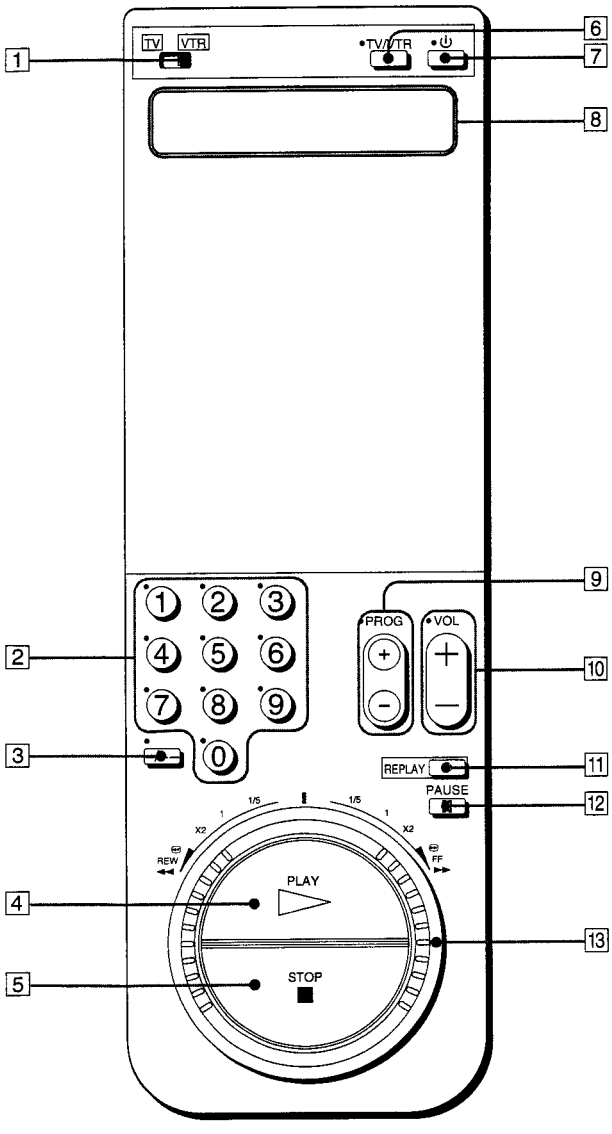
4 NICAM indicator (See page 22.)

5 Line and programme position indicator (See page 8.)

6 PDC indicator (SLV-E8UV model only) (See page 29.)

7 AUTO TRACKING indicator (See page 17.)

8 Cassette indicator (appears when a cassette is loaded) (See page 14.)



Remote Commander (with cover closed)

1 TV/VTR remote control selector (See page 6.)

2 Programme position number buttons (See pages 10 and 20.)

3 –/-- (10s digit button) (See pages 10 and 20.)

4 ► PLAY button (See page 15.)

5 ■ STOP button (See page 15.)

6 TV/VTR button (See page 8.)

7 ⏻ (on/standby) button (See page 8.)

8 Liquid-crystal display (LCD) (See page 12.)

9 PROG +/– (programme) button (See page 8.)

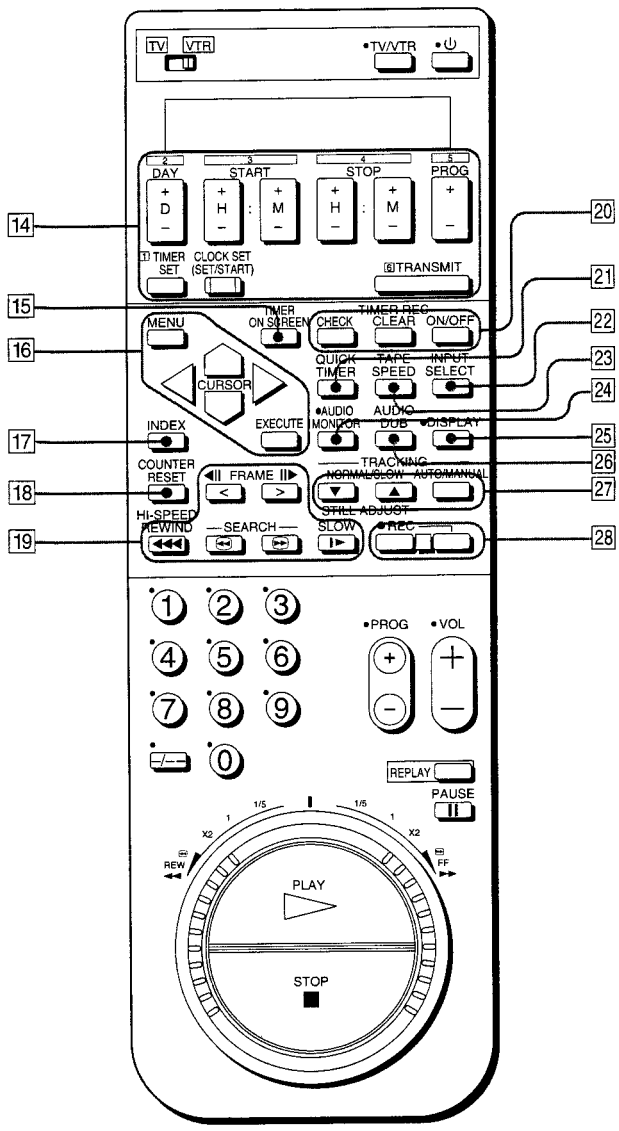
10 VOL +/– (volume) button (Press + to increase the volume and – to decrease it.)

11 REPLAY button (See page 31.)

12 ❚❚ PAUSE button (See pages 15 and 30.)

13 DUAL MODE SHUTTLE ring (See pages 15 and 30.)

(Continued)



Remote Commander (with cover opened)

14 Timer recording/clock buttons (See pages 12 and 24.)
- 1 TIMER SET button
  CLOCK SET (SET/START) button
- 2 DAY button
- 3 START time buttons
- 4 STOP time buttons
- 5 PROG +/– (programme position) button
- 6 TRANSMIT button

15 TIMER ON SCREEN button (See page 28.)

16 Menu operations buttons (See page 9.)
- MENU button
- Cursor buttons (▲/▼/◀/▶)
- EXECUTE button

17 INDEX button (See page 33.)

18 COUNTER RESET button (See page 16.)

19 Tape transport buttons
- ◀◀◀ HI-SPEED REWIND button (See page 15.)
- ⏪/⏩ SEARCH buttons (See page 30.)
- </> ◀II FRAME II▶ buttons (See page 30.)
- I► SLOW button (See page 30.)

20 TIMER REC buttons (See page 29.)
- CHECK button (See page 29.)
- CLEAR button (See page 29.)
- ON/OFF button (See page 25.)

21 QUICK TIMER button (See page 27.)

22 INPUT SELECT button (See page 8.)

23 TAPE SPEED button (See page 21.)

24 AUDIO MONITOR button (See pages 18 and 23.)

25 DISPLAY button (See page 16.)

26 AUDIO DUB button (See page 38.)

27 TRACKING buttons (See page 17.)
- ▼/▲ NORMAL/SLOW STILL ADJUST buttons
- AUTO/MANUAL button

28 ● REC buttons (See page 20.)

Troubleshooting

Function	Symptom	Possible causes and remedies
Power	The ON/STANDBY button does not function.	• The AC power cord is not connected. ➡ Connect the AC power cord. • The VCR is in standby mode for timer recording.
	The power is turned on, but the VCR does not operate.	• The safety device on the VCR has been activated. ➡ Turn the power off, disconnect the AC power cord from the wall outlet, and leave the VCR for more than 1 hour.
Clock and timer	The clock has stopped and "–:––" lights up.	• There has been a power interruption. ➡ Reset the time and date clock, and timer settings. (See page 12.) • The VCR has been disconnected from the wall outlet for more than 1 hour, and then reconnected. ➡ Reset the time and date clock. (See page 12.)
TV reception and recording	The TV programme is not clearly displayed on the TV screen.	• The programme position for the VCR has not been correctly tuned on the TV. ➡ Tune the TV to the VCR. (See page 8.) • TV reception is weak. ➡ Adjust the aerial.
	There is no picture on the TV screen.	• The RF MODULATOR selection in the SET UP MENU is set to "OFF." (This applies if you have made connections via the aerial socket.) ➡ Set it to "ON." (See page 32.) • The programme position for the VCR has not been selected on the TV, or the video input has not been selected on the monitor. ➡ Select one of the programme positions for the VCR. (See page 8.) If you are using a colour monitor, select the video input on the monitor.
	Recording cannot be done.	• No cassette has been inserted. ➡ Insert a cassette with the safety tab in place. • The tape is at its end. ➡ Rewind the tape. • INPUT SELECT is not set correctly. ➡ Select L1 or L2 when recording from another VCR connected to the LINE IN jacks.
Playback	The playback picture is not clear.	• The programme position for the VCR playback has not been selected on the TV, or the video input has not been selected on the monitor. ➡ Select the programme position for the VCR. If you are using a colour monitor, select the video input on the monitor. • The COLOR SYSTEM selector has been set to the incorrect position. ➡ Set COLOR SYSTEM to the position corresponding to the colour system with which the cassette is recorded. (See page 15.) • A tape recorded on another VCR is being played back. ➡ Adjust the tracking using the TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ buttons. (See page 17.)

(Continued)

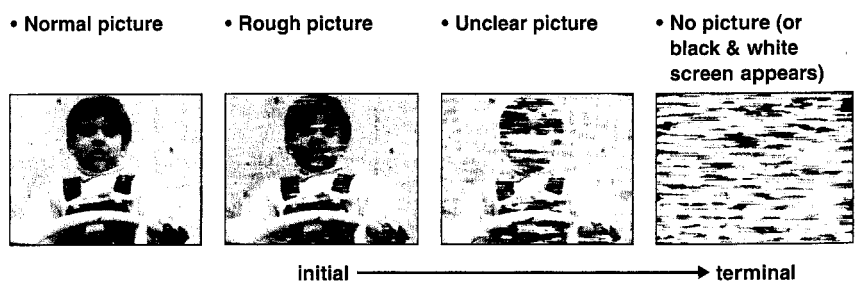
Function	Symptom	Possible causes and remedies
Playback	The playback picture is not very clear.	• The video heads are dirty. ➡ Clean the heads using the Sony V-25CL video head cleaning cassette. For details on cleaning, refer to the instructions provided with the cleaning cassette. If the cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility. (Do not use a commercially available wet-type cleaning cassette, as it may damage the video heads.) • The video heads are worn out. ➡ Consult your nearest Sony service facility. • The recording quality is poor. ➡ Select RENTAL PICTURE. (See page 17.)
	The picture moves vertically during picture search mode.	• The vertical hold of the TV has not been adjusted correctly. ➡ Adjust the vertical hold control on the TV or colour monitor.
	The sound drops out.	• The tape is defective. ➡ Use a new tape.
	The playback sound becomes unstable or has an echo.	• The AUDIO MIX selection in the SET UP MENU is set to "ON." When you listen to a tape on which the same sound was recorded on both the hi-fi and the normal track, set AUDIO MIX to "OFF." (See page 19.)
Timer recording	Timer settings cannot be made.	• The correct time has not been preset. ➡ Set the current time and date on the clock. (See page 12.)
	The TIMER REC indicator does not light even though you press TIMER REC (ON/OFF).	• No cassette has been inserted. ➡ Insert a cassette with the safety tab in place. • The tape is at its end. ➡ Rewind the tape. • No setting is made for timer recording. ➡ Set your desired programme for timer recording. (See page 24.)
	The cassette is ejected when you press TIMER REC (ON/OFF).	• The safety tab of the cassette has been removed. ➡ Cover the safety tab slot with plastic tape, or use another cassette with a safety tab in place.
	Timer recording was not made.	• There has been a power interruption lasting approximately one hour or more. • The TIMER REC (ON/OFF) was not pressed.
Display	The Display does not appear.	• The Display is off. ➡ Press DISPLAY. • The inserted tape was recorded on the NTSC system.
Others	The cassette cannot be inserted.	• A cassette has already been inserted. ➡ Eject the cassette.
	The Remote Commander does not operate.	• The batteries are low. ➡ Replace the batteries.
	The tracking indicator does not appear on the screen.	• The recording condition of the tape is very poor and tracking cannot be adjusted, or the NTSC system is being used.

Taking Care of Your VCR

Video Head Cleaning

When playback pictures are noisy and hardly visible, or when no picture or blue screen appears, the video heads may be contaminated. In such a case, clean the video heads using the V-25CL video head cleaning tape (not supplied), or ask Sony service personnel to clean the video heads, with this service there would be a standard charge.

Symptoms caused by contaminated video heads



Worn Video Heads

If the VCR displays a poor picture after you clean the video heads, you may need to replace them. Consult your dealer or the Sony Service Centre nearest you.

Check the Video Heads after 1,000 Hours of Use

A VCR is a high precision machine. It must record on or play back from magnetic tapes on which the image signals from the colour TV or the video camcorder are recorded.
The video heads or mechanical parts for transporting the tape are contaminated or worn after extended use. You should have the VCR checked after each 1,000 hours of use.

Specifications

System

Channel coverage	PAL (I): UHF channels 21 to 69
RF output signal	UHF channels 30 to 39
Aerial out	75-ohm asymmetrical aerial socket

Inputs and outputs

VIDEO IN	Phono jack (1) Inputs signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO IN	Phono jack (1) Input level: –7.5 dBs (0 dBs = 0.775 Vrms) Input impedance : more than 47 kilohms
EURO-AV	21 pin Video input: pin 20 Audio input: pins 2 and 6 Video output: pin 19 Audio output: pins 1 and 3
AUDIO OUT	Phono jack (1) Rated output level: –7.5 dBs at load Impedance : 47 kilohms Output impedance: less than 10 kilohms

General

Power requirements	240 V AC, 50 Hz
Power consumption	25 W
Operating temperature range	5° C to 40° C (41° F to 104° F)
Storage temperature range	–20° C to 60° C (–4° F to 140° F)
Dimensions	430 × 90 × 372 mm (w/h/d) (17 × 3⅝ × 14¾ inches) including projecting parts and controls
Weight	5.2 kg (11 lb 7 oz)

Accessories supplied

Remote Commander (1)
R6 (size AA) batteries (SLV-E7UB: 2, SLV-ER7UY/E8UV: 4)
Aerial lead (1)
Audio cable (1)
AC mains lead (1)
RF screwdriver (1)
Video Plus+ Remote Commander (SLV-ER7UY/E8UV only) (1)
Quick Start Manual (1)

Note

Design and specifications are subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Index

Accessories 46
Allocating Channels Directly 10
Audio Dubbing 38
AUDIO MIX 19, 32
AUDIO MONITOR button 18, 23
Auto Head Cleaner 17
AUTO TRACKING indicator 17
Batteries 5, 6
Buttons you can use during quick-timer recording 26
Buttons you can use during timer recording 26
Changing or Cancelling the Timer Settings 29
Channel coverage 9, 46
Checking the Timer Settings 28
Cleaning 2, 45
COLOR SYSTEM switch 15
Colour system 4, 15
Connecting the VCR 7
Daily/Weekly Recording 26
Disabling Unwanted Channels 10
Display 16
DIMMER 32
Display Window 8, 40
Editing 36
Ejecting a Video Cassette 14
Features 4
Fine Tuning 11
Frame-by-frame Picture 30
Front Panel 39
HIFI AUDIO 32
Index Function 33
INDEX SCAN 33
INDEX SEARCH 34
INPUT SELECT 8
Inputs and outputs 46
Inserting Batteries 6
Inserting a Video Cassette 14
Installation 2
Listening to a Stereo or Bilingual Tape 18
Listening to Mixed Sound 19
LOCAL/DX switch 11
Locked Picture Search 30
Manual Tracking 17
Maximum Recording Time of a Cassette 21
Monitor Sound 18
NICAM System 22
NICAM broadcasts 22
NTSC PB switch 17
NTSC-recorded Tapes 17
OPC button/indicator 35
OPC Function 35
Operation 2
Overlapping Timer Recordings 28
Parts and Controls 39
PAUSE button 15, 30
Pausing the Picture 30
PDC Recording (SLV-E8UV only) 29
Picture Search 30
PICTURE switch 17
Playback 14
Playing Back a Cassette 15
Precautions 2
Preparing the Remote Commander 6
Presetting Desired Channels 9
PROGRAM LIST 28
Protecting your cassette against accidental erasure 14
Quick-Timer Recording 27
Rear Panel 40
Recording 20
Recording Stereo/Bilingual Programmes 22
Recording while Watching Another Programme 21
Recording while Watching the TV Programme 20
Recording with the TV Off 21
Remote Commander 6, 41
RENTAL PICTURE 17
Replay Picture 31
Resetting the Tape Counter 16
RF CHANNEL screw 11
RF MODULATOR 32
Safety 2
Safety tab 14
SET UP MENU 19, 32
Setting the Clock 12
Setting the Timer 24
Slow-motion Playback 30
Specifications 46
STEREO/BILINGUAL indicator 23
STOP button 15
Tape counter 16
Tape Dubbing 36
TAPE SPEED button 21
Time and date clock 12
TIMER REC CLEAR button 29
TIMER REC indicator 27
TIMER REC-REW 32
Timer Recording 24
TIMER SET button 24
TRACKING AUTO/MANUAL button 17
Troubleshooting 43
TUNER PRESET 9
Tuning the TV to Your VCR 8
Tuning Your VCR to Television Broadcasts 9
TV/VTR remote control selector 6
Unpacking 5
X2 Normal Speed Playback 31

Video Cassette Recorder

SLV-E7UB/ER7UY/E8UV

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